

Groundwater Monitoring Report
Third Quarter 2023

Former Gunderson LLC Facility
4350 NW Front Avenue
Portland, Oregon

for
Gunderson LLC

December 22, 2023



GEOENGINEERS 
Earth Science + Technology

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Prepared for:

Gunderson LLC

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Table of Contents

1.0 INTRODUCTION	1
1.1. Regulatory Framework.....	1
1.2. Report Organization	1
2.0 SITE DESCRIPTION.....	1
2.1. Site Use	2
2.2. Geology and Hydrogeology	3
2.2.1. Geology	3
2.2.2. Hydrogeology	3
3.0 GROUNDWATER ASSESSMENT BACKGROUND.....	4
3.1. Deactivation of Area 1 Extraction Well	4
3.2. Comprehensive Groundwater Conceptual Site Model.....	5
3.3. Stormwater Infiltration Groundwater Monitoring.....	5
3.3.1. Area 1 Pressure Transducer Evaluation Results	6
3.3.2. Groundwater Monitoring Downgradient of Stormwater Infiltration Areas Results	6
3.4. Monitoring Wells MW-82 and MW-14.....	6
3.5. Focused Porewater Investigation.....	7
3.6. Groundwater Monitoring Program	8
3.6.1. Regulatory Criteria.....	8
4.0 GROUNDWATER MONITORING PROCEDURES.....	9
4.1. Groundwater Elevations	9
4.2. Groundwater Sampling Methods	9
4.3. Groundwater Analyses.....	10
4.4. Investigation-Derived Waste	10
5.0 GROUNDWATER MONITORING RESULTS	10
5.1. Groundwater Elevations and Gradient	10
5.2. Groundwater Analytical Results	11
5.2.1. Volatile Organic Compounds.....	11
5.2.2. Metals	12
5.3. Results Summary.....	14
6.0 REFERENCES	15

LIST OF TABLES

Table 1. Current Groundwater Monitoring Program

Table 2. Groundwater Elevation Data, Third Quarter 2023

Table 3. Groundwater Field Parameters, Third Quarter 2023

Table 4. Groundwater Analytical Results, Third Quarter 2023—Volatile Organic Compounds

Table 5. Groundwater Analytical Results, Third Quarter 2023—Metals

LIST OF FIGURES

Figure 1. Site Location Map

Figure 2. Site Vicinity Plan

Figure 3. Groundwater Monitoring Well Network

LIST OF APPENDICES

Appendix A. Select Figures from December 2022 Gunderson Stormwater Pollution Control Plan

Sheets W-1 through W-3—Stormwater Pollution Control Plan

Appendix B. Field Documentation

Appendix C. Laboratory Report and Data Quality Review

Table C-1—Field Duplicate RPD Evaluation

Laboratory Analytical Results

Appendix D. Historical Groundwater Elevations

Table D-1—Historical Groundwater Elevations—Area 1

Table D-2—Historical Groundwater Elevations—Area 2

Table D-3—Historical Groundwater Elevations—Area 3

Appendix E. Historical Groundwater Analytical Data

Table E-1—Historical Groundwater Analytical Results—Volatile Organic Compounds

Table E-2—Historical Groundwater Analytical Results—Petroleum Hydrocarbons

Table E-3—Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons

Table E-4—Historical Groundwater Analytical Results—Metals

Table E-5—Historical Groundwater Analytical Results—Phthalates

Table E-6—Historical Groundwater Analytical Results—Polychlorinated Biphenyls

Appendix F. EPA Groundwater Statistics Tool Evaluation of Area 1 VOC Concentration Trends

Appendix G. EPA Groundwater Statistics Tool Evaluation of Metals Concentration Trends

1.0 INTRODUCTION

This *Third Quarter 2023 Groundwater Monitoring Report* was prepared on behalf of Gunderson LLC (Gunderson) for the former Gunderson facility located at 4350 NW Front Avenue in Portland, Oregon (the Site).

1.1. Regulatory Framework

The Oregon Department of Environmental Quality (DEQ) Environmental Cleanup and Site Information (ECSI) number for the Site is 1155. Ongoing assessment and remediation activities at the Site are being completed under Voluntary Cleanup Agreement No. WMCVC-NWR-94-01, between Gunderson and DEQ. Source control activities are being performed by Gunderson under Consent Order No. LQVC-NWR-13-02.

A portion of the Willamette River, including the reach adjacent to the Site, was added to the Superfund National Priority List in December 2000. The approximate boundaries of the Portland Harbor Study Area are from river mile (RM) 1.9 to RM 11.8. The Site is on the west side of the Willamette River, approximately between RM 8.5 and RM 9.2. Remedial design in the Portland Harbor River Mile 9 West Project Area, which includes the Site riverbanks and area offshore of the Site, is being conducted by FMC Corporation, under an Administrative Settlement Agreement and Order on Consent (ASAOC) with the United States Environmental Protection Agency (EPA).

1.2. Report Organization

The purpose of this report is to: (1) present the methods, procedures, and results of the third quarter 2023 groundwater monitoring event conducted on August 31, 2023; and (2) present a comparison of the groundwater monitoring data to applicable regulatory criteria and an evaluation of chemical concentration trends. This report is divided into six primary sections:

- Section 2 presents a description of the Site, current site use, geology, and hydrogeology.
- Section 3 presents a background discussion of groundwater assessment conducted at the Site and a summary of the current groundwater monitoring program scope and regulatory criteria for evaluating the quality of Site groundwater.
- Section 4 describes the procedures and methods for the third quarter 2023 groundwater monitoring event.
- Section 5 provides an evaluation of the third quarter 2023 groundwater elevations and gradient, the laboratory analytical data, and includes a comparison of the data to regulatory criteria and an evaluation of concentration trends.
- Section 6 lists report references.

2.0 SITE DESCRIPTION

The Site is an active industrial barge manufacturing facility owned and operated by Oregon Green Manufacturing LLC. Gunderson sold the Site to Oregon Green Manufacturing on May 15, 2023. The Site covers approximately 59 acres and 4,000 lineal feet of river frontage on the western bank of the Willamette River between river miles 8.5 and 9.2. The Site location is shown on Figure 1 and the Site layout

is shown on Figure 2. The Site is bordered by Lakeside Industries on the northwest, NW Front Avenue and the Burlington Northern Santa Fe (BNSF) Railway rail yard on the southwest, Georgia-Pacific Corporation on the southeast, and the Willamette River on the northeast. The Site is zoned Heavy Industrial and River Industrial.

Impervious surfaces (e.g., buildings, asphalt pavement, and railroad tracks) cover approximately 80 percent of the Site, and the remaining 20 percent of the Site, including riverbanks, is covered with pervious materials such as gravel or vegetation. Many of the impervious surface areas have pervious features within them to promote stormwater infiltration, as discussed in Section 3.2. Except for the slope along the riverbank (between top of bank and the river), the Site is relatively flat, with a ground surface elevation ranging between approximately 36 to 42 feet (North American Vertical Datum 1988 [NAVD88]).

2.1. Site Use

The Site is divided into three areas (from downriver to upriver): Area 1, Area 2, and the Schnitzer ASD Yard (referred to in some historical reports as Area 3), as shown on Figure 2. The area boundaries are delineated based on similar industrial activities. Current use, activity, and structures in each Site area are described in more detail below.

Area 1. Area 1 is primarily used for material delivery, warehousing, steel parts storage, and the beginning of the manufacturing process. Area 1 buildings include the Wheel Shop, the Plate Shop, the Machine Shop, the Receiving Office, the Receiving Warehouse, and the Main Truck Receiving Dock. A marine dock that has not been in use for many years is located primarily on leased submerged and submersible land offshore of Area 1.

Area 2. Area 2 is primarily used for manufacturing. Area 2 contains the main manufacturing buildings and other facilities used for other manufacturing processes, including: the Marine Barge Launchways, the Fabrication Bays, Craneways 1 through 6, the Marine Paint & Blast Building, the Finish & Paint Building, and the Maintenance Shop and Administrative Offices. An asphalt-concrete (AC) road, referred to as Main Street, runs northwest to southeast through the central part of Area 2. The former entrance to a dock owned by Shell Oil Products U.S. (Equilon) and a related decommissioned pipeline easement are also located within this area. The dock was removed and the pipeline was decommissioned in 2017 and 2018, respectively. The easement is now terminated.

Schnitzer ASD Yard. The Schnitzer ASD Yard is primarily used for materials storage. Approximately 60 percent of the Schnitzer ASD Yard is either paved or under cover. Compacted gravel and drain rock cover most of the remaining part of the Schnitzer ASD Yard. Although some areas along the riverbank are not paved, armoring and other structures (i.e., the Outfitting Dock gantry) cover most of the bank. Buildings in the Schnitzer ASD Yard include the Stevedore Building, the Marine Engineering Building, the 3-Bay Building, the Hazardous Materials Storage Area, the Rail Services Building, and the AutoStack Building. The Outfitting Dock runs parallel to almost the entire length of the riverbank of the Schnitzer ASD Yard (1,300 feet out of a total of 1,340 feet). The submerged land beneath the outfitting dock is leased from the State of Oregon.

2.2. Geology and Hydrogeology

2.2.1. Geology

The Site is located on the western edge of a large fault-bounded geologic structure known as the Portland Basin. The basin has been filled with up to 1,400 feet of consolidated and unconsolidated alluvial and glacio-fluvial sedimentary deposits ranging in age from middle Miocene (about 12 million years ago) to Pleistocene age (about 2 million to 0.01 million years ago). The sedimentary deposits overlie 16.5- to 6-million-year-old basalt flows of the Columbia River Basalt Group (CRBG). The basalt flows occur at relatively shallow depths along the west side of the Willamette River in the Site area. The hydrostratigraphic units that underlie the Site are described below from shallowest to deepest.

Fill

Most of the Site is underlain by fill materials placed in former lowland areas along the Willamette River. The fill is predominantly dredged river sediments. The fill includes fine sand and silty sand with some gravel and larger size rock. Fill deposits also contain various amounts of debris such as concrete, brick, blast grit, metal, and wood. The thickness of fill materials varies from Front Avenue to the river and from the downstream end to the upstream end of the Site. The thickness ranges from approximately 0.5 foot near Front Avenue along much of the Site to approximately 25 feet near the Willamette River in the upstream third of the Site (i.e., the Schnitzer ASD Yard).

Alluvial Deposits

Recent alluvial deposits consist of unconsolidated clay, silt, silty sand, and lenses and layers of fine to medium sand and gravel deposited in the channels and on the floodplains of the Willamette River. Older alluvial deposits underlie the recent alluvium and consist of coarse-grained and fine-grained units of ice-age flood deposition. The total thickness of the recent and older alluvial units ranges from approximately 30 feet to 150 feet at the Site.

Flood deposits present in the lower portions of the alluvial unit consist of crudely to complexly layered, unconsolidated, fine- to medium-grained sand and silt in the upper portion with coarse-grained sand and gravel in the lower portion. This lower coarse-grained unit varies in thickness, ranging from approximately 10 to 200 feet thick along the Willamette River near the Site.

Bedrock

The CRBG bedrock is present at variable depths along the west side of the Willamette River. The CRBG bedrock has been encountered at the Site at depths ranging from 31 to 160 feet below the ground surface (bgs), with the shallowest CRBG bedrock underlying Area 1. Bedrock has not been encountered at borings completed at the Schnitzer ASD Yard. The thickness of the basalt near the Site is estimated to be approximately 600 feet. Borings completed into bedrock on the Site indicated a deposit of weathered basalt gravel at the top of the bedrock, underlain by layered fractured to massive basalt flow units.

2.2.2. Hydrogeology

Groundwater elevations have been monitored at the Site since the early 1990s. Groundwater elevations and gradients fluctuate seasonally. Depth to groundwater at the Site generally ranges from 25 to 30 feet bgs in Area 1, 20 to 25 feet bgs in Area 2, and approximately 15 to 20 feet bgs in the Schnitzer ASD Yard. Perched groundwater is sometimes encountered at shallower depths at the Schnitzer ASD Yard. Groundwater elevations are normally highest in the spring (March) and lowest in the fall (September).

The hydraulic gradient indicates that groundwater at the Site generally flows in a northerly to northeasterly direction toward the Willamette River. The groundwater gradient is generally relatively flat at Area 1 (approximately 0.0005 to 0.001 foot per foot) and at the downstream portion of Area 2. Steeper groundwater gradients (approximately 0.01 to 0.02 foot per foot) are observed on the upstream portion of Area 2 and at the Schnitzer ASD Yard. This noticeably steeper groundwater gradient in the southern portion of the Site has been consistently observed since at least 1991 (Squier, 1991). Based on the median hydraulic conductivity (0.008 ft/min) measured by Integral et al. (2011) for the general Portland Harbor area, an assumed effective porosity of 0.3, and the groundwater gradients noted above for the three areas of the Site, the groundwater velocities in the fill and alluvium units at the Site are on the order of 4 to 700 feet per year, respectively.

Groundwater elevations at the Site are affected by the Willamette River stage. The reach of the Willamette River that is adjacent to the Site is tidally influenced. The daily tidal range near the Site is approximately 4 feet (EPA, 2017). Groundwater levels and fluxes in the fill and alluvium are affected by diurnal tidal influences. The degree of tidal influence decreases with increasing distance from the river.

In 2005, a preliminary groundwater conceptual site model was developed for the Site as part of the EPA-approved Portland Harbor Remedial Investigation. That site-specific groundwater conceptual site model (Integral et al., 2005) concluded that most groundwater at the Site discharges to the Willamette River somewhere offshore and below the mean low water line.

3.0 GROUNDWATER ASSESSMENT BACKGROUND

Gunderson has evaluated groundwater conditions at the Site for more than 30 years. The following briefly summarizes key information regarding groundwater assessment and source control as it pertains to the current groundwater monitoring program. A comprehensive historical summary of groundwater assessment and source control at the Site was provided in the *Comprehensive Groundwater Conceptual Site Model* (Cascadia, 2020a).

3.1. Deactivation of Area 1 Extraction Well

In 2004, a groundwater extraction system was installed in Area 1 to treat volatile organic compounds (VOCs) in groundwater resulting from a 1980 release of 1,1,1-trichloroethane (TCA). In 2013, after 9 years of groundwater extraction system operation, a capture zone evaluation was performed for extraction well WEX-60. That evaluation concluded: (1) VOC concentrations in groundwater at Area 1 had decreased to levels less than or only slightly exceeding DEQ screening criteria; and (2) the extraction well had ceased having a significant effect on groundwater concentrations (Ash Creek Associates/Apex Companies, 2013). In early 2014, DEQ authorized suspension of groundwater treatment at Area 1, contingent on Area 1 halogenated volatile organic compounds (HVOC) concentrations in groundwater remaining stable to decreasing. The system was deactivated on July 16, 2014.

Area 1 groundwater monitoring data continue to demonstrate that deactivation of the groundwater treatment system has not adversely affected groundwater quality at the Site, and additional groundwater source control is not necessary. In June 2021, Gunderson submitted a proposal to DEQ for removal of the Area 1 groundwater treatment infrastructure (Cascadia, 2021a).

3.2. Comprehensive Groundwater Conceptual Site Model

In May 2020, the *Comprehensive Groundwater Conceptual Site Model* (CSM) was submitted to DEQ in support of the ongoing groundwater source control evaluation at the Site (Cascadia, 2020a). The CSM described:

- Site hydrogeology, to support an evaluation of groundwater contaminant transport pathways to the Willamette River.
- Potential sources of hazardous substances to groundwater, based upon historical activities and releases at the Site.
- Current (post-remediation) groundwater conditions at the Site and trends in chemical concentrations in groundwater.
- Groundwater quality at the Site and extent of chemicals in groundwater that exceed the Portland Harbor Cleanup Levels listed in Table 17 of the Record of Decision for the Portland Harbor Superfund Site (EPA, 2017 and 2020).

The information and analysis presented in the CSM demonstrate that groundwater at the Site does not pose a significant recontamination risk to the Willamette River. EPA provided comments on the CSM to DEQ in a November 30, 2020 letter. DEQ has not provided comments on the CSM.

3.3. Stormwater Infiltration Groundwater Monitoring

To reduce the volume and pollutant mass loading of stormwater discharging to the Willamette River, Gunderson established a widely distributed network of approximately 97 small stormwater infiltration features at the Site since 2013. Figures from the December 2022 *Gunderson Stormwater Pollution Control Plan* (SWPCP), showing the locations of the stormwater infiltration features at the Site, are provided in Appendix A for reference. These infiltration features supplement stormwater infiltration that has occurred at large areas of the Site during the entire period of facility operations (e.g., large unpaved areas in the Schnitzer ASD Yard and the North and South Transfer Tables). As a result of these efforts, the volume of stormwater and pollutant mass discharging from the Site has been reduced by approximately 50 percent.

Widespread stormwater infiltration also occurs at other properties in the vicinity of the Site. For example, infiltration occurs at a 100+ acre railyard that is directly across Front Avenue to the southwest of the Site. Stormwater infiltration also occurs at the Lakeside Industries property that is immediately adjacent to and downstream of the Site.

In 2019, DEQ requested that Gunderson develop and implement a groundwater monitoring program to further evaluate the effects of stormwater infiltration on groundwater. In accordance with the DEQ-approved *Final Revised Stormwater Infiltration Monitoring Work Plan* (Cascadia, 2019b), the following stormwater infiltration evaluation activities were completed in 2019:

- Eleven groundwater monitoring wells (MW-82 through MW-92; Figure 3) were installed in June 2019 at locations near or downgradient of stormwater infiltration areas.
- The groundwater monitoring program for four existing wells close to areas of focused stormwater infiltration (wells MW-14, MW-17, MW-52, and MW-62) was expanded.

- Six pressure transducers were installed in Area 1 wells MW-27, MW-49, MW-52, MW-62, MW-71, and MW-91, located in the Site area with the greatest concentration of stormwater infiltration features, to evaluate short- and long-term variability in groundwater elevations and temperature.

Groundwater monitoring well installation activities were documented in the *Second Quarter 2019 Groundwater Monitoring and Well Installation Report* (Cascadia, 2019a).

3.3.1. Area 1 Pressure Transducer Evaluation Results

The data from the year-long Area 1 pressure transducer study from June 2019 to June 2020 demonstrated that stormwater infiltration may result in minor short-term effects on groundwater elevation and temperature at limited areas (Cascadia, 2020b). These apparent localized effects on groundwater elevation and temperature are transitory and limited to 1- to 3-day durations. These findings are consistent with observations during quarterly groundwater monitoring events that have repeatedly shown that stormwater infiltration has not caused significant perturbations to groundwater gradients. DEQ approved discontinuation of the 12-month transducer study in a November 30, 2020 letter (DEQ, 2020).

3.3.2. Groundwater Monitoring Downgradient of Stormwater Infiltration Areas Results

Gunderson's expanded annual groundwater monitoring program included monitoring of groundwater elevations from 46 monitoring wells and sampling of 44 monitoring wells distributed across the Site with many located along the riverbank. The results of the expanded groundwater monitoring program were documented in Gunderson quarterly monitoring reports since the program was implemented in the second quarter 2019. The 2-year stormwater infiltration monitoring period was completed with the second quarter 2021 groundwater monitoring event, but continued through the second quarter 2022, when DEQ approved a reduction in the groundwater monitoring scope as noted in Section 3.5.

Overall, data from these stormwater infiltration monitoring program wells are similar to the data collected from the other Site groundwater monitoring wells. That is, chemical concentrations in groundwater downgradient of stormwater infiltration areas remain low to non-detect, exhibit decreasing to stable concentration trends, rarely exceed regulatory criteria, and when exceedances are observed, the exceedance ratios are generally low.

The monitoring results for stormwater infiltration monitoring wells MW-14 (zinc) and MW-82 (most notably, arsenic) were noted as exceptions, and these concentrations are elevated compared to other Site monitoring wells. Further evaluation of groundwater quality in the MW-14 and MW-82 areas is described in Section 3.4.

3.4. Monitoring Wells MW-82 and MW-14

As noted above, elevated or increasing concentrations of some metals, relative to other monitoring wells on site and relative to some regulatory criteria, have been detected in groundwater samples collected from monitoring wells MW-82 and MW-14. Gunderson proposed to evaluate the source of the anomalous metals concentrations and potential associated risks to the Willamette River in the *Work Plan for Evaluation of MW-82 and MW-14 Areas* (Cascadia, 2021b).

In summary, the following tasks were implemented:

- Completion of the 1-year pressure transducer study for wells MW-82 and MW-14.

- Installation of well MW-93, replacing damaged well MW-14.
- Continued groundwater monitoring and assessment of metals concentrations for wells MW-82 and MW-14/MW-93.
- Evaluation of groundwater chemistry parameters and redox conditions.
- Sampling of stormwater influent to infiltration features INF-2-3 (in the well MW-82 area) and INF-3-8 (in the MW-14/MW-93 area).
- Stormwater improvements in the MW-82 and MW-14/MW-93 area including cleaning of pavement and cleanout of infiltration features and stormwater conveyance system infrastructure.

The following summarizes the results of the evaluation.

Well MW-14/MW-93 Area. During the evaluation, the casing for well MW-14 was determined to be damaged. The well was decommissioned and replaced by well MW-93. Dissolved zinc has not been detected in groundwater samples collected from well MW-93. With the exception of arsenic and manganese, which are ubiquitous across the Site, no chemicals have been detected in well MW-93 groundwater at concentrations exceeding regulatory criteria. The elevated zinc previously measured in the area in former well MW-14 appears to be a result of the damaged well casing.

In a July 19, 2022 letter, DEQ approved discontinuation of investigation of the MW-14/MW-93 area, provided that groundwater monitoring results continue to demonstrate low to non-detect metals concentrations.

Well MW-82 Area. The pressure transducer study, groundwater chemistry parameter evaluation, and stormwater influent sampling results indicate that infiltrating stormwater is likely not the source of elevated arsenic and other metals detected in MW-82 groundwater, nor is stormwater infiltration increasing the solubility and mobility of metals in MW-82 area groundwater.

Historical images indicate that that from at least 1957 through the 1960s, vessel launchways (known as Launchways 3) were in operation at the location of MW-82. Launchways 3 consisted of a pair of launchways rails sloping from the upland area into the Willamette River. Launchways 3 was below the current ground surface elevation, as indicated by the launchway rails that project from the riverbank, well below the current top of the riverbank. FMC Corporation, the Site owner/operator at the time, filled Launchways 3 to its current elevation by 1983. Documentation of the materials that were used to fill the launchways is unavailable; however, fill materials encountered during completion of soil borings in 2011 and 2016 in the Launchways 3 area included wood/logs, brick, glass, and slag material (Shaw, 2011; Cascadia, 2017). It is possible that the elevated metals measured in the MW-82 groundwater are the result of a subsurface source of these metals, present in the historical fill that was placed in the area. As discussed below, a focused porewater investigation including the area offshore of MW-82 is underway.

3.5. Focused Porewater Investigation

The *Focused Porewater Investigation Work Plan* was submitted to DEQ on March 31, 2023 (GeoEngineers, 2023a). Gunderson proposed porewater sampling for metals offshore of Area 2 well MW-82 to determine whether concentrations of arsenic and zinc in groundwater are a risk to the Willamette River. The proposed porewater investigation scope also included assessment of chlorinated VOCs offshore of Area 1, as requested by DEQ.

DEQ and EPA comments on the Work Plan were provided by DEQ on May 23, 2023. The *Revised Focused Porewater Investigation Work Plan* (Revised Work Plan) was submitted to DEQ on June 22, 2023 (GeoEngineers, 2023c). In addition to assessment offshore of Area 1 and well MW-82, the Revised Work Plan included investigation of the area offshore of well MW-74 for select metals (cadmium, copper, and zinc), which had recently exhibited increasing concentration trends. The Revised Work Plan scope also included pressure transducer monitoring of the Willamette River level and groundwater elevation in several site monitoring wells (MW-51, MW-52, MW-74, and MW-82).

DEQ approved the Revised Work Plan in a July 6, 2023 letter. To allow for monitoring of the Willamette River level, a stilling well was installed at the Outfitting Dock on July 20, 2023. Pressure transducer monitoring at the stilling well and monitoring wells MW-52, MW-74, and MW-82 was initiated on July 20, 2023. Pressure transducer monitoring of well MW-51 was initiated on August 3, 2023. Porewater discharge mapping, porewater sampling, and sediment sampling were completed in August and September 2023. Preparation of the porewater investigation results report is underway.

3.6. Groundwater Monitoring Program

Groundwater monitoring at the Site is conducted in accordance with the DEQ Voluntary Cleanup Program Agreement No. WMCVC NWR 94 01, and subsequent modifications. A complete list of groundwater monitoring program modifications was included most recently in the *Fourth Quarter 2022 Groundwater Monitoring Report* (GeoEngineers, 2023b). The most recent modifications to the program are described below:

- Following decades of groundwater monitoring across the Site, Gunderson proposed reductions to the Site groundwater monitoring program in the *Second Quarter 2021 Groundwater Monitoring Report*, submitted to DEQ in September 2021 (GeoEngineers, 2021). The report included detailed rationale supporting these proposed reductions to the monitoring program.
- On June 8, 2022, DEQ provided approval for Gunderson to implement the proposed modifications to the groundwater monitoring program during the second quarter 2022 monitoring event. The scope of the modified groundwater monitoring program is presented in Table 1. DEQ noted that future groundwater monitoring reports would be reviewed to determine whether the data collected are adequate for source control decision making.

As of this third quarter 2023 groundwater monitoring event, the scope of the annual Site groundwater source control monitoring program includes groundwater elevation monitoring, and collection and analysis of groundwater samples from up to 16 monitoring wells during each quarterly monitoring event. Groundwater monitoring program details (i.e., frequency of monitoring and laboratory analyses) and monitoring well construction information (i.e., total depth and screened interval) are presented in Table 1 and the monitoring well network is shown on Figure 3.

3.6.1. Regulatory Criteria

For evaluation purposes and consistent with DEQ guidance, groundwater analytical data are compared to the Groundwater Cleanup Levels in Table 17 of the Record of Decision for the Portland Harbor Superfund Site (the “CULs”; EPA, 2017 and 2020). If Groundwater CULs are unavailable for an analyte, data are compared to surface water CULs. Analytes for which no CULs have been established are compared to

Portland Harbor Joint Source Control Strategy (JSCS) screening level values (SLVs) (DEQ and EPA, 2005). Collectively, these screening levels are referred to herein as Regulatory Criteria.

Regulatory Criteria for groundwater were established to identify concentrations of hazardous substances that may pose a risk when contaminated groundwater enters the Willamette River sediment and mixes with surface water. Regulatory Criteria were not established specifically to evaluate the risk posed by constituents in groundwater at upland areas, such as the Site. Therefore, the actual risk that hazardous substances in groundwater pose to the river is dependent on several factors, including: (1) potential migration to the river, (2) persistence of the chemical in the environment, and (3) mass flux to the river. In some instances, as described in Section 5.2.2, the regional background concentrations of chemicals (e.g., arsenic and manganese) are significantly higher than the CULs.

4.0 GROUNDWATER MONITORING PROCEDURES

The third quarter 2023 groundwater monitoring event was conducted on August 31, 2023. The event included depth to groundwater measurements and collection of groundwater samples from four monitoring wells for laboratory analysis. Three wells are typically gauged and sampled during the third quarter 2023 monitoring (Table 1). As noted in the *Second Quarter 2023 Groundwater Monitoring Report*, well MW-74 was added to the third quarter 2023 monitoring event scope, following anomalously high concentrations of some metals measured in well MW-74 groundwater during the second quarter 2023 monitoring event. Monitoring activities are described in more detail below. Recorded field observations are presented on the field forms in Appendix B.

4.1. Groundwater Elevations

Depths to groundwater were measured from the top of the monitoring well casing to the nearest 0.01 foot using an electronic water level probe. The depth to groundwater measurements and corresponding groundwater elevations for wells in the Site monitoring program are presented in Table 2.

4.2. Groundwater Sampling Methods

Groundwater samples were collected from four monitoring wells at the Site (MW-74, MW-82, and MW-93) and one monitoring well at the adjacent Lakeside Industries property (MW-103). Groundwater sampling was completed using low-flow sampling techniques according to the procedures detailed below.

Prior to sample collection, monitoring wells were purged with a peristaltic pump while field parameters (temperature, pH, electrical conductivity, oxidation reduction potential [ORP], and dissolved oxygen [DO]) were recorded on the groundwater sampling field sheets every 3 minutes. Monitoring wells were purged until field parameters had stabilized for three consecutive 3-minute intervals. Groundwater monitoring field sheets are included in Appendix B. Groundwater field parameter measurements recorded immediately before groundwater sample collection are presented in Table 3 along with the field parameter measurements from the previous three groundwater monitoring events.

Immediately after purging, groundwater samples were collected directly from the discharge tubing of the pump into laboratory-supplied sample containers and labeled with identifying information (e.g., sample ID, date, and time). Samples collected for analysis of dissolved metals were field filtered using a

0.45-micrometer in-line filter. A field duplicate sample was collected from well MW-82. Sample containers were placed in an iced cooler and maintained under chain-of-custody protocols.

Reusable sampling equipment, such as the water level probe, was decontaminated before and after each use with a laboratory-grade detergent (e.g., Liquinox®) followed by a distilled water rinse. New tubing was used for purging and sampling each well.

4.3. Groundwater Analyses

Groundwater samples collected during the third quarter 2023 groundwater monitoring event were submitted to Apex Laboratories of Tigard, Oregon, for analysis. Samples were analyzed for one of the following:

- Chlorinated VOCs by EPA Method 8260D, or
- Total and dissolved metals (antimony, arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, zinc) by EPA Method 6020A.

Laboratory analytical data reports and a data quality review are provided in Appendix C. As described in additional detail in Appendix C, the data quality review indicates that the analytical data, as qualified, are suitable for the intended use of evaluating groundwater quality at the Site.

4.4. Investigation-Derived Waste

Investigation-derived wastewater (e.g., purge water and decontamination water) was containerized and placed in an accumulation drum in the Site waste storage area, pending profiling and disposal. Solid waste (e.g., gloves, tubing, etc.) was disposed of in a solid waste container.

5.0 GROUNDWATER MONITORING RESULTS

The following sections provide an evaluation of the third quarter 2023 groundwater elevations, as well as the laboratory analytical data.

5.1. Groundwater Elevations

Depth to groundwater measurements and corresponding groundwater elevations are presented in Table 2. Measured groundwater elevations during the third quarter 2023 groundwater monitoring event were generally consistent with previous data. The groundwater elevation for well MW-74 (15.68 feet) was higher than the elevations measured in the three other wells monitored (ranged from 9.17 to 9.84 feet) and higher than groundwater elevations measured in well MW-74 during historical third quarter monitoring events. A storm event occurred on August 31 during the groundwater monitoring event, and a preliminary evaluation of the pressure transducer data for well MW-74 collected during for the porewater investigation has indicated a correlation between groundwater elevation and rainfall. Pressure transducer data for well MW-74 and the connection between rainfall and groundwater level fluctuations in the well will be evaluated further and discussed in the focused porewater investigation results report. Historical groundwater elevation data are listed in Appendix D.

5.2. Groundwater Analytical Results

The third quarter 2023 groundwater monitoring results for VOCs and metals are presented in Tables 4 and 5, respectively, along with the results of the previous three sampling events for wells sampled during this event. Site-wide historical groundwater monitoring results are presented in Appendix E.

5.2.1. Volatile Organic Compounds

During the third quarter 2023 monitoring event, the groundwater sample for Lakeside Industries well MW-103 was analyzed for chlorinated VOCs. Results are shown in Table 4.

Third Quarter 2023 VOC Results

One compound (tetrachloroethene [PCE]) was detected in MW-103 at a concentration that exceeds the corresponding CUL or JSCS SLV. As shown below, the exceedance ratio (i.e., detected concentration/Regulatory Criterion) was low (3.0).

Analyte	Frequency of Exceedance	Average Exceedance Ratio ⁽¹⁾	Maximum Exceedance Ratio	Regulatory Criterion ⁽²⁾	Wells Exceeding Criteria
PCE	1/1	3.0	3.0	0.24 µg/L	MW-103

Notes: µg/L = micrograms per liter

⁽¹⁾ Exceedance Ratio = Detected Concentration/Regulatory Criterion. If both a primary and field duplicate were analyzed for VOCs, the higher of the two concentrations is used in the calculation of the exceedance ratio for the well.

⁽²⁾ Regulatory Criterion = Portland Harbor Record of Decision Groundwater CUL.

VOC Concentration Trend Evaluation

As requested by DEQ, VOC concentration trends are evaluated using the EPA Groundwater Statistics Tool (EPA, 2018). The EPA Groundwater Statistics Tool uses statistical methods to evaluate contaminant concentration trends in groundwater. The EPA Groundwater Statistics Tool can only evaluate datasets that include four or more detected concentrations that exceed the laboratory method reporting limit (MRL), and at least eight total results.

Well MW-103 was the only well sampled for VOCs during the third quarter 2023 monitoring event. Both individual VOC and total molar HVOC concentration trends were evaluated for well MW-103.

Individual VOC Trend Evaluation

The individual VOC concentration trend evaluation is conducted for VOCs and monitoring wells with one or more Regulatory Criteria exceedances during the last four monitoring events that meet the criteria for evaluation using the EPA Groundwater Statistics tool. PCE in well MW-103 was the only VOC, which met the criteria for evaluation using the EPA Groundwater Statistics Tool, that had exceeded the Regulatory Criteria during at least one of the last four sampling events.

The results of the EPA Groundwater Statistics Tool concentration trend evaluation for well MW-103 are presented in Appendix F. As shown in Appendix F, the concentration trend for PCE in well MW-103 is stable¹, meaning that the evaluation did not identify a statistical trend in PCE concentrations (i.e., concentrations are not increasing or decreasing), even in the absence of active treatment.

Total Molar HVOC Trend Evaluation

In 2019, DEQ requested that evaluation of concentration trends for total molar HVOCs be included in future groundwater monitoring reports (DEQ, 2019). In accordance with that request, this section includes an evaluation of total molar HVOC concentration trends in well MW-103.

The results of the total molar HVOC concentration trend evaluation are presented in Appendix F. As shown in Appendix F, total molar HVOC concentrations in well MW-103 exhibited no statistically significant trends (i.e., concentrations are stable).

VOC Trend Evaluation Results

The statistical evaluations of individual VOC and total molar HVOC concentration trends in monitoring well MW-103 demonstrate that trends are stable (i.e., exhibiting neither increasing nor decreasing trends) in the absence of groundwater treatment.

5.2.2. Metals

Samples from one Area 2 monitoring well (MW-82) and two Schnitzer ASD Yard wells (MW-74 and MW-93) were analyzed for total and dissolved metals during the third quarter 2023 groundwater monitoring event.

Consistent with the results of previous groundwater monitoring events, detected concentrations of arsenic (total and dissolved) exceeded Regulatory Criterion in all samples, with the exception of dissolved arsenic in well MW-74. Consistent with previous events, the concentration of arsenic in well MW-82 is higher than the current and historical arsenic concentrations detected in other Site monitoring wells. Manganese (total and dissolved) also exceeded the Regulatory Criterion in wells MW-82 and MW-93. Typically, manganese concentrations in the majority of Site wells exceed the Regulatory Criterion.

As described in the *Revised Updated Groundwater Source Control Evaluation Report* (Cascadia, 2017), arsenic and manganese concentrations in groundwater that exceed Regulatory Criteria are widespread at the Site and in wells upgradient of the Site, suggesting that naturally occurring or regional concentrations exceed the Regulatory Criteria. This is supported by the data collected during the EPA-approved Portland Harbor Superfund Site Pre-Remedial Design Investigation (Pre-RD Investigation). The Pre-RD Investigation data indicate that arsenic and manganese in porewater upstream of the Portland Harbor Superfund Site are approximately 58 micrograms per liter (µg/L) and 32,000 µg/L, respectively (AECOM/Geosyntec, 2019). These concentrations exceed Site groundwater concentrations, with the exception of arsenic, in well MW-82, discussed below. Therefore, the Portland Harbor Pre-RD Investigation data suggest that the concentrations of arsenic and manganese in Site groundwater are naturally occurring, except at well MW-82.

¹ Concentrations are defined herein as “stable” when the EPA Groundwater Statistics Tool indicates neither an increasing nor decreasing trend.

Regulatory Criteria exceedance ratios for metals other than arsenic and manganese are summarized in the table below.

Analyte	Frequency of Exceedance	Average Exceedance Ratio	Maximum Exceedance Ratio	Regulatory Criterion	Well Exceeding Criterion
Antimony (total)	1/3	2.0	2.0	6 µg/L ⁽¹⁾	MW-82
Antimony (dissolved)	1/3	1.9	1.9	6 µg/L ⁽¹⁾	MW-82
Cadmium (total)	1/3	4.7	4.7	0.094 µg/L ⁽²⁾	MW-74
Cadmium (dissolved)	1/3	3.8	3.8	0.094 µg/L ⁽²⁾	MW-74
Copper (total)	2/3	5.3	8.6	2.74 µg/L ⁽²⁾	MW-74, MW-93
Copper (dissolved)	1/3	5.8	5.8	2.74 µg/L ⁽²⁾	MW-74
Lead (total)	3/3	4.1	5.4	0.54 µg/L ⁽²⁾	MW-74, MW-82, MW-93
Lead (dissolved)	1/3	1.6	1.6	0.54 µg/L ⁽²⁾	MW-74
Zinc (total)	2/3	3.8	6.0	36.5 µg/L ⁽²⁾	MW-74, MW-82
Zinc (dissolved)	2/3	3.4	5.4	36.5 µg/L ⁽²⁾	MW-74, MW-82

Notes:

⁽¹⁾ Regulatory Criterion = JSCS SLV

⁽²⁾ Regulatory Criterion = Portland Harbor Record of Decision Groundwater CUL

As shown above, of the three wells sampled for metals during the third quarter 2023 event, two wells (MW-74 and MW-82) contained one or more dissolved metal concentrations (excluding arsenic and manganese) that exceeded associated Regulatory Criteria. For well MW-82, excluding arsenic and manganese, dissolved metals exceedance ratios were low (ranging from 1.4 to 1.9). As noted in Section 3.5, arsenic in porewater offshore of well MW-82 is being investigated as part of the focused porewater investigation. Exceedances of Regulatory Criteria in well MW-74 are discussed below.

While exceedance ratios for dissolved metals in well MW-74 are low (ranging from 1.6 to 5.8), concentrations of metals are elevated compared to historical results for the well. Concentrations of some metals, in particular total zinc and dissolved copper, have decreased from the historic high concentrations detected during the second quarter monitoring event but concentrations remain elevated. Conversely, the concentrations of total and dissolved manganese measured in well MW-74 are lower than concentrations measured historically. Metals concentrations in porewater offshore of well MW-74 will be evaluated in the forthcoming porewater investigation results report.

Concentrations of dissolved metals in well MW-93 (the replacement well for MW-14) continue to be below Regulatory Criteria, with the exception of arsenic and manganese. Therefore, with few exceptions, metals concentrations in Site groundwater are low and, unless naturally occurring, infrequently exceed Regulatory Criteria, and exceedances are of low magnitude.

Dissolved Metals Concentration Trends

Dissolved metals concentration trends were evaluated using the EPA Groundwater Statistics Tool in wells where a sufficient dataset is available and where metal concentrations were potentially increasing, per DEQ request (DEQ, 2020). The EPA Groundwater Statistics Tool recommends a minimum of eight results and requires that at least four samples exhibit concentrations that exceed the laboratory MRL for evaluation.

Arsenic and manganese trends are not evaluated; with the exception of arsenic in well MW-82, concentrations are generally consistent across the Site.

Because dissolved metals are more representative of the mobile fraction of metals in groundwater, dissolved metals concentration trends were evaluated, although, total and dissolved metals concentrations in Site groundwater are generally similar (Table 5). Of the three wells sampled for metals during the third quarter 2023 event, the following wells and metals meet the criteria for evaluation using the EPA Groundwater Statistics tool and have had one or more detected concentrations in exceedance of Regulatory Criteria during the previous four monitoring events:

- MW-74: cadmium, copper, lead, and zinc
- MW-82: antimony, and zinc.

Dissolved metals concentration trends in well MW-93 were not evaluated because no dissolved metals results meet the criteria for evaluation described above. With the exceptions of manganese and arsenic, no well MW-93 dissolved metals concentrations have exceeded Regulatory Criteria. Additionally, arsenic and manganese concentrations in well MW-93 are within the typical range detected in other wells at the Site. The results of the EPA Groundwater Statistics Tool concentration trend evaluation for dissolved metals in wells MW-82 and MW-74 are presented in Appendix G and are discussed below.

For well MW-82, the EPA Groundwater Statistics tool indicated that concentration trends are stable (i.e., no statistically significant trend was determined). For well MW-74, the EPA Groundwater Statistics Tool indicated that outliers were present in the datasets for dissolved cadmium and copper. Excluding the anomalous second quarter 2023 dissolved copper concentration for well MW-74, the outliers were retained in the datasets for evaluation. For dissolved zinc in well MW-74, evaluation using the EPA Groundwater Statistics Tool initially resulted in an error, with the trend line indicating negative concentrations of dissolved zinc at the beginning of the timeframe evaluated. Results were removed (oldest to newest) until negative concentrations were not predicted and the EPA Groundwater Statistics Tool was able to evaluate the trend for dissolved zinc. Ultimately, the fourth quarter 2017, second quarter 2018, and fourth quarter 2018 results were removed from the well MW-74 dissolved zinc dataset in order to use the EPA Groundwater Statistics Tool. Following the adjustment of the dissolved zinc dataset as noted, increasing trends were indicated for dissolved cadmium, copper, and zinc.

5.3. Results Summary

The third quarter 2023 groundwater monitoring event included groundwater elevation measurement and sample collection at four monitoring wells. In summary:

- Groundwater elevations during the third quarter 2023 monitoring event were consistent with those observed during previous monitoring events, with the exception of well MW-74. The groundwater elevation for well MW-74 was higher than the other wells monitored during the third quarter 2023 event, and higher than historical water levels measured in well MW-74 during third quarter monitoring events. As noted in Section 5.1, a preliminary evaluation of well MW-74 pressure transducer data collected for the focused porewater investigation has indicated a correlation between rainfall and groundwater elevation in well MW-74. Groundwater elevation data for the well will be further evaluated in the focused porewater investigation results report.

- Groundwater chemical analytical data collected during the third quarter 2023 monitoring event were generally consistent with historical data, with few exceptions. That is, analyte concentrations rarely exceed Regulatory Criteria, and when exceedances occur, the exceedance ratios are generally low or indicative of naturally occurring concentrations in area groundwater (e.g., arsenic and manganese). As with previous events, arsenic concentrations in well MW-82 groundwater are an exception. The focused porewater investigation includes evaluation of metals concentrations offshore of well MW-82.
- Well MW-74 is typically sampled on a semi-annual schedule but was resampled during the third quarter 2023 monitoring event following anomalously high concentrations of some metals detected during the second quarter 2023 event. While exceedance ratios of metals in well MW-74 groundwater remain low, concentrations of some metals (most notably copper and zinc) are elevated compared to historical results for well MW-74. Similar to well MW-82, metals concentrations in porewater offshore of well MW-74 are being evaluated as part of the focused porewater investigation.
- MW-103 was sampled for chlorinated VOCs during this event. Detected concentrations of one VOC (PCE) exceeded the associated Regulatory Criterion, though the exceedance ratio is low (3.0). The PCE and total molar VOC concentration trends for well MW-103 were evaluated using the EPA Groundwater Statistics Tool and concentrations were determined to be stable (i.e., no statistically significant trend).
- Dissolved metals concentration trends were evaluated for wells and metals meeting the criteria for evaluation using the EPA Groundwater Statistics tool as noted in Section 5.2.2. With the exception of dissolved cadmium, copper, and zinc in well MW-74, evaluated dissolved metals concentrations do not exhibit increasing trends.

Overall, the third quarter 2023 monitoring results continue to demonstrate that the low concentrations of constituents in groundwater at the Site pose no significant threat to the river, with few exceptions. An investigation of chemical concentrations in porewater offshore of Area 1, well MW-82, and well MW-74 was completed in August and September 2023 and evaluation of the investigation data is ongoing and will be presented in the focused porewater investigation results report in early 2024.

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Table 1
Groundwater Monitoring Program
Gunderson LLC
Portland, Oregon

Area	Monitoring Well	Total Depth (feet bgs)	Screened Interval (feet bgs)	First Quarter		Second Quarter		Third Quarter		Fourth Quarter		VOCs	PAHs	Total Metals	Dissolved Metals
				gauge	sample	gauge	sample	gauge	sample	gauge	sample				
Area 1	MW-19	30.0	15 -30	-	-	-	-	-	-	-	-	-	-	-	-
	MW-21	35.0	20-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-22	35.0	20-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-27	44.0	34-44	-	-	X	X	-	-	X	X	X	-	-	-
	MW-36	52.5	47-52	-	-	X	X	-	-	X	X	X	-	-	-
	MW-39	49.5	39-49	-	-	X	X	-	-	X	X	X	-	-	-
	MW-40	51.5	45-51	-	-	-	-	-	-	-	-	-	-	-	-
	MW-41	51.5	45-51	-	-	-	-	-	-	-	-	-	-	-	-
	MW-42	56.3	45.8-55.8	-	-	-	-	-	-	X	X	X	-	-	-
	MW-43	61.5	56-61	-	-	X	X	-	-	X	X	X	-	-	-
	MW-44	57.5	47.5-57.5	-	-	-	-	-	-	-	-	-	-	-	-
	MW-49	32.0	23-33	-	-	-	-	-	-	-	-	-	-	-	-
	MW-50	50.0	40-50	-	-	-	-	-	-	X	X	X	-	-	-
	MW-51	41.0	36-41	-	-	X	X	-	-	X	X	X	-	-	-
	MW-52	48.0	38-48	-	-	X	X	-	-	X	X	X	-	-	-
	MW-53	101.5	90.5-101	-	-	-	-	-	-	-	-	-	-	-	-
	MW-62	43.0	32-42	-	-	-	-	-	-	-	-	-	-	-	-
	MW-70	37.0	22-37	-	-	X	X	-	-	X	X	X	-	-	-
	MW-71	49.0	39-49	-	-	-	-	-	-	-	-	-	-	-	-
	WEX-60	50.0	30-50	-	-	-	-	-	-	-	-	-	-	-	-
Area 2	MW-91	39.0	14-39	-	-	-	-	-	-	-	-	-	-	-	-
	MW-91	35.0	15-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-103	33.5	23-33	X	X	X	X	X	X	X	X	X ⁽⁶⁾	-	-	-
	MW-17	34.5	19.5-34.5	-	-	-	-	-	-	-	-	-	-	-	-
	MW-23	35.0	20-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-24	35.0	20-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-31	35.0	20-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-66	41.0	20-40	-	-	-	-	-	-	X	X	-	X	-	-
	MW-81	35.0	20-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-82	30.0	10-30	X	X	X	X	X	X	X	X	-	-	X	X
Schnitzer ASD Yard	MW-83	35.0	15-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-84	30.0	10-30	-	-	-	-	-	-	-	-	-	-	-	-
	MW-85	35.0	15-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-92	35.0	15-35	-	-	X	X	-	-	X	X	-	-	X	X
	MW-10	20.0	5-20	-	-	-	-	-	-	-	-	-	-	-	-
	MW-11	21.5	6.5-21.5	-	-	-	-	-	-	-	-	-	-	-	-
	MW-14	30.0	15-30	Well decommissioned in January 2022; MW-93 installed as replacement											
	MW-72	30.0	15-30	-	-	-	-	-	-	-	-	-	-	-	-
	MW-73	30.0	15-30	-	-	-	-	-	-	-	-	-	-	-	-
	MW-74	36.5	20-35	-	-	X	X	-	-	X	X	-	-	X	X
	MW-76	36.5	20-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-77	36.5	20-35	-	-	-	-	-	-	-	-	-	-	-	-
	MW-79	15.0	5-15	-	-	X	X	-	-	X	X	-	-	X	X
	MW-80	20.0	5-20	-	-	-	-	-	-	-	-	-	-	-	-
	MW-86	30.0	10-30	-	-	-	-	-	-	-	-	-	-	-	-
	MW-87	30.0	10-30	-	-	-	-	-	-	-	-	-	-	-	-
	MW-88	30.0	10-30	-	-	-	-	-	-	-	-	-	-	-	-
	MW-89	30.0	10-30	-	-	-	-	-	-	-	-	-	-	-	-
	MW-93	30.0	15-30	X	X	X	X	X	X	X	X	-	-	X	X

Notes:

1. VOCs = volatile organic compounds by United States Environmental Protection Agency (EPA) Method 8260D.

2. PAHs = polycyclic aromatic hydrocarbons by EPA Method 8270D/8270E.

3. Metals = antimony, arsenic, barium, cadmium, chromium, copper, lead, manganese, nickel, and zinc by EPA 6000/7000 series.

4. feet bgs = feet below the ground surface.

5. -- = Not sampled for listed parameter or not gauged.

6. Groundwater samples collected from well MW-103 are analyzed for chlorinated VOCs by EPA Method 8260D.

7. Gunderson monitoring wells MW-43, MW-44, MW-50, and MW-51 and Lakeside Industries well MW-103 are located on Lakeside Industries property, adjacent to Area 1 of the Gunderson site.

8. Oregon Dept. of Environmental Quality (DEQ) approved implementation of this reduced monitoring program in a June 8, 2022 email.

Table 2

Groundwater Elevation Data—Third Quarter 2023

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (Feet MSL) ¹	Depth to Groundwater (Feet)	Groundwater Elevation (Feet MSL)
AREA 1				
MW-103	9/21/2022	39.53	31.10	8.43
	3/7/2023	39.53	29.70	9.83
	5/31/2023	39.53	26.94	12.59
	8/31/2023	39.53	30.36	9.17
AREA 2				
MW-82	9/21/2022	32.89	23.41	9.48
	3/7/2023	32.89	21.78	11.11
	5/31/2023	32.89	18.43	14.46
	8/31/2023	32.89	23.05	9.84
SCHNITZER ASD YARD				
MW-74	6/20/2022	34.85	15.73	19.12
	11/28/2022	34.85	19.92	14.93
	5/31/2023	34.85	20.18	14.67
	8/31/2023	34.85	19.17	15.68
MW-93	9/21/2022	33.21	24.00	9.21
	3/7/2023	33.21	22.99	10.22
	5/31/2023	33.21	18.14	15.07
	8/31/2023	33.21	23.48	9.73

Notes:

1. Feet MSL = feet relative to mean sea level, NAVD88 datum.
2. Dedicated electric pump installed by Lakeside Industries.

Table 3**Groundwater Field Parameters—Third Quarter 2023**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	pH	Temperature (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)
AREA 1						
MW-103	11/28/2022	6.15	14.3	404.1	0.88	-84.4
	3/7/2023	6.38	11.0	336.5	3.40	-261.3
	5/31/2023	6.43	14.4	316	0.63	186.5
	8/31/2023	6.49	15.1	316	0.50	60.3
AREA 2						
MW-82	11/29/2022	6.94	13.8	864	0.16	-120.2
	3/7/2023	7.02	14.2	874	0.2	-345.6
	6/2/2023	7.26	15.2	552	0.18	-167.4
	8/31/2023	7.20	15.1	500	0.46	-167
SCHNITZER ASD YARD						
MW-74	6/22/2022	6.72	14.4	312	0.76	30
	11/29/2022	7.03	13.0	608	1.57	107.5
	5/31/2023	7.32	12.8	466	2.30	16.5
	8/31/2023	6.90	14.4	355	3.08	85
MW-93	11/29/2022	6.32	13.8	1055	0.23	-42.9
	3/7/2023	6.51	14.9	932	0.54	-313.5
	6/2/2023	6.64	16.8	724	0.79	-133.5
	8/31/2023	6.59	16.7	831	0.46	-145

Notes:

1. Measurements presented are the final readings recorded prior to sample collection.
2. °C = degrees Celsius; µS/cm = microsiemens per centimeter; mg/L = milligrams per liter.
3. NM = not measured. Sample from WEX-60 was collected as a grab sample due to the presence of the extraction pump.
4. mV = millivolts.

Table 4
Third Quarter 2023 Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in micrograms per liter (ppb)																			
		AREA 1																			
MW-103	11/28/2022	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	7.58	<1.00	<1.00	<5.00	<1.00
	3/7/2023	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/7/2023 DUP	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	5/31/2023	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	8/31/2023	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
ROD Cleanup Level ⁴ .		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁷ .		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79

Please refer to notes at end of table.

Table 4
Second Quarter 2023 Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in micrograms per liter (ppb)																					
		AREA 1																					
MW-103	11/28/2022	-	-	<0.500	<0.500	<0.500	<1.00	5.37	<0.400	1.68	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	-	<5.00	-	-	-
	3/7/2023	-	-	<0.500	<0.500	<0.500	<1.00	5.31	<0.400	1.31	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	-	<5.00	-	-	-
	3/7/2023 DUP	-	-	<0.500	<0.500	<0.500	<1.00	5.51	<0.400	1.34	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	-	<5.00	-	-	-
	5/31/2023	-	-	<0.500	<0.500	<0.500	<0.500	10.7	<0.400	2.76	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	-	<5.00	-	-	-
	8/31/2023	-	-	<0.500	<0.500	<0.500	<0.500	6.32	<0.400	1.71	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	-	<5.00	-	-	-
ROD Cleanup Level ⁴ .		NA	NA	NA	NA	NA	NA	NA	NA	7	NA**	NA	NA	NA	NA	NA	NA	NA	7.3	NA	NA	NA	NA
JSCS SLV ⁷ .		0.033	61	49	14	2.8	390	47	0.73	NA	61	110	0.97	NA	NA	NA	0.055	0.055	7.3	0.86	99	660	NA

Please refer to notes at end of table.

Table 4
Second Quarter 2023 Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in micrograms per liter (ppb)																					
		AREA 1																					
MW-103	11/28/2022	-	-	<10.0	-	-	-	<0.400	<0.500	0.850	-	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	-	-	<0.400 J1	-	-
	3/7/2023	-	-	<10.0	-	-	-	<0.400	<0.500	<0.400	-	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	-	-	<0.400	-	-
	3/7/2023 DUP	-	-	<10.0	-	-	-	<0.400	<0.500	<0.400	-	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	-	-	<0.400	-	-
	5/31/2023	-	-	<10.0	-	-	-	<0.400	<0.500	0.920	-	<2.00	<2.00	0.450	<0.500	<0.400	<2.00	<1.00	-	-	<0.400	-	-
	8/31/2023	-	-	<10.0	-	-	-	<0.400	<0.500	0.720	-	<2.00	<2.00	0.420	<0.500	<0.400	<2.00	<1.00	-	-	<0.400	-	-
ROD Cleanup Level ⁴ .		NA	NA	NA	12	NA	NA	NA	NA	0.24	9.8	NA	NA	NA	NA	0.6	NA	NA	NA	NA	0.022	13	13.0
JSCS SLV ⁷ .		170	37	8.9	0.2	NA	100	2.5	0.33	0.12	9.8	NA	8.2	11	1.2	0.17	1,300	0.0095	NA	NA	0.015	1.8	

Notes:

1. < = constituent was not detected at a concentration greater than laboratory reporting limit shown.

2. – = not applicable or not established.

3. ppb = parts per billion

4. ROD Groundwater Cleanup Levels for the Record of Decision Table 17 for Portland Harbor Superfund Site (January 2020 U.S. EPA Errata #2). If a Groundwater Cleanup Level was not available, the Surface Water Cleanup Level was used, per DEQ Guidance.

5. Bold = analyte was detected above the laboratory method detection limit.

6. JSCS SLV = Screening Level Values from Portland Harbor Joint Source Control Strategy (JSCS), December 2005.

7. Shading denotes analyte detected above screening criteria. As instructed by DEQ, concentrations of analytes were compared to the Portland Harbor Cleanup Level. If neither a Groundwater or Surface Water Cleanup Level was available, data were compared to the JSCS SLV.

Table 5
Third Quarter 2023 Groundwater Analytical Results—Metals
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
		Concentrations in micrograms per liter (ppb)																					
AREA 2																							
MW-82	11/29/2022	16.7	14.0	210	218	341	345	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.83	0.242	1,300	1,350	–	–	10.3	9.55	110	101
	3/7/2023	16.6	13.2	177	161	361	287	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.63	<0.200	1,310	1,470	–	–	10.6	9.88	107	82.3
	6/2/2023	13.9	13.7	136	139	255	248	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.693	0.304	1,130	1,150	–	–	12.3 B, Q-29	7.92	67.4	67.2
	8/31/2023	11.3	11.5	84.7	85	184	189	<0.200	<00.200	<2.00	<2.00	<2.00	<2.00	1.93	0.235	1,140	1,220	<0.0800	–	5.02	4.99	57.4	49.4
	8/31/2023 DUP	12.1	11.6	85.8	83.3	189	193	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.69	0.231	1,150	1,200	<0.0800	–	5.38	4.92	56.2	51.1
SCHNITZER ASD YARD																							
MW-74	6/22/2022	7.01	5.80	3.33	<1.00	224	86.5	0.790	<0.200	2.25	<2.00	8.69	2.26	2.82	<0.200	3,020	56.0	–	–	6.65	<2.00	269	44.3
	11/29/2022	5.20	4.20	4.85	<1.00	261	113	0.510	<0.200	2.70	<2.00	12.6 J1	2.73	2.38	<0.200	2,830	484	–	–	5.18	<2.00	222	70.0
	11/29/2022 DUP	4.92	4.20	3.61	<1.00	217	116	0.386	<0.200	2.27	<2.00	5.85 J1	2.79	1.79	<0.200	2,210	498	–	–	4.05	<2.00	170	72.7
	5/31/2023	8.30	3.83	9.62	1.22	963	118	2.780	0.254	9.31	<2.00	36.8	284	16.4	0.732	12,000	527	–	–	31.2 B	3.85	1,110	213
	8/31/2023	5.41	5.36	1.11	<1.00	142	138	0.445	0.361	2.86	2.41	23.6	15.8	2.91	0.874	93.7	4.84	<0.0800	–	5.11	4.65	219	197
MW-93	11/29/2022	<1.00	<1.00	15.6	17.0	156	155	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.213	<0.200	3,380	3,460	–	–	<2.00	<2.00	<4.00	<4.00
	3/7/2023	<1.00	<1.00	13.7	14.2	123	119	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	2,960	2,970	–	–	<2.00	<2.00	<4.00	<4.00
	6/2/2023	<1.00	<1.00	15.2	15.3	104	101	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,640	1,650	–	–	<2.00	<2.00	<4.00	<4.00
	6/2/2023 DUP	<1.00	<1.00	15.1	15.3	102	99.6	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,610	1,630	–	–	<2.00 B-02	<2.00	<4.00	<4.00
	8/31/2023	<1.00	<1.00	15.0	15.0	144	134	<0.200	<0.200	6.94	<2.00	5.40	<2.00	2.03	<0.200	3,790	3,760	<0.0800	–	3.52	<2.00	9.07	<4.00
ROD Cleanup Level ⁵		NA		0.018		NA		0.094		11		2.74		0.54		430		NA		NA		36.5	
JSCS SLV ⁶		6		0.045		NA		0.094		100		2.7		0.54		50		0.77		16		36	

Notes:

1. ppb = parts per billion

2. **Bold** denotes analyte detected above laboratory detection limit.

3. – = not analyzed or not applicable.

4. Dissolved metals samples were field filtered using a 0.45 micrometer filter.

5. ROD Groundwater Cleanup Levels from U.S. EPA Errata #2 for the Record of Decision Table 17 for Portland Harbor Superfund Site, Portland, Oregon, January 2020. If a Groundwater Cleanup Level was not available, the Surface Water Cleanup Level was used, per DEQ Guidance.

6. JSCS SLV = Screening Level Values from Portland Harbor Joint Source Control Strategy (JSCS), December 2005.

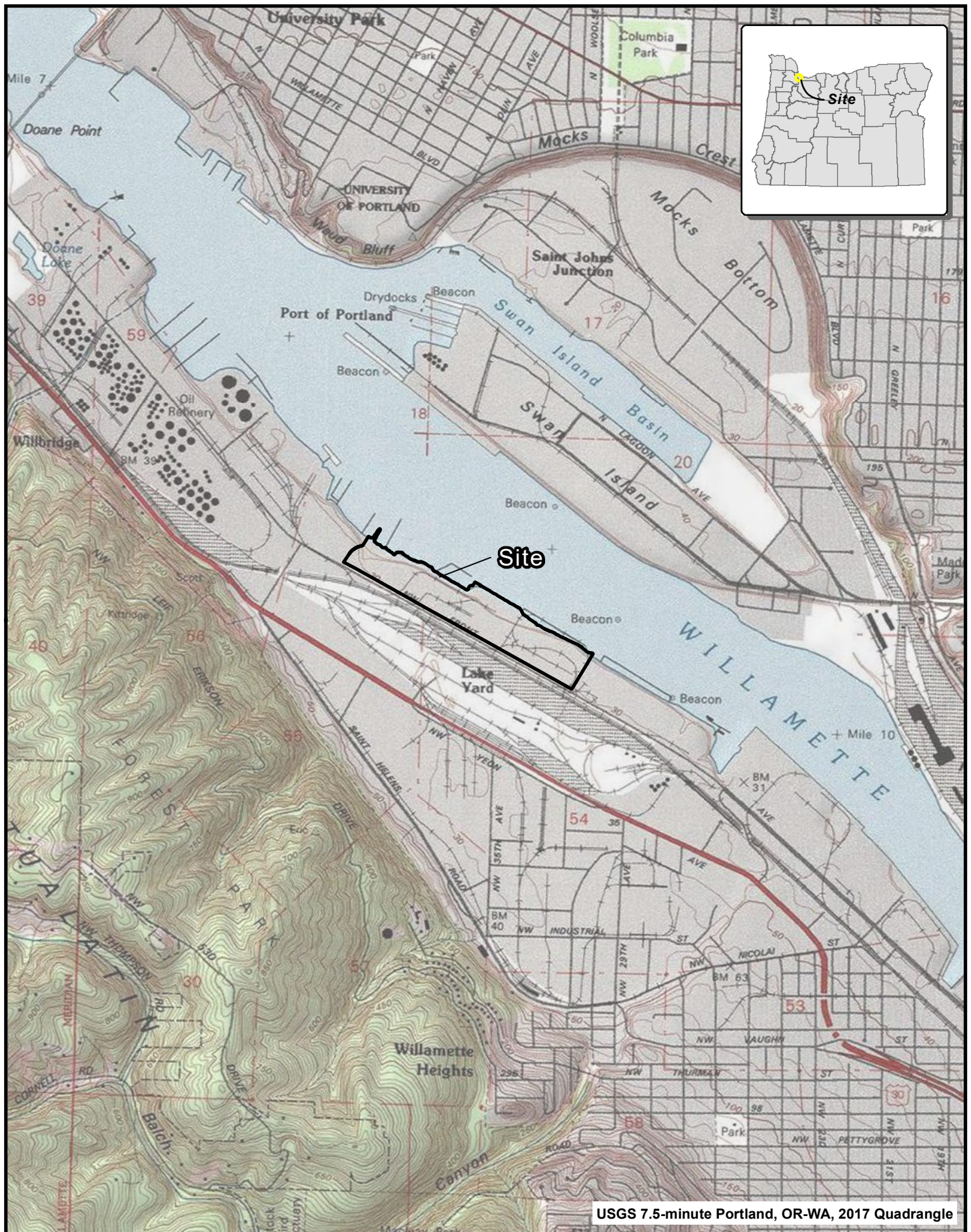
7. Shading denotes analyte detected above screening criteria. As instructed by DEQ, concentrations of analytes were compared to the Portland Harbor Cleanup Level. If neither a Groundwater or Surface Water Cleanup Level was available, data were compared to the JSCS SLV.

8. < = constituent was not detected at a concentration greater than laboratory reporting limit shown.

9. B = Analyte detected in an associated blank at a level above the MRL.

10. B-02 = Analyte detected in an associated blank at a level between one-half the MDL and MRL.

11. Q-29 = Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.



USGS 7.5-minute Portland, OR-WA, 2017 Quadangle



PREPARED BY: ES

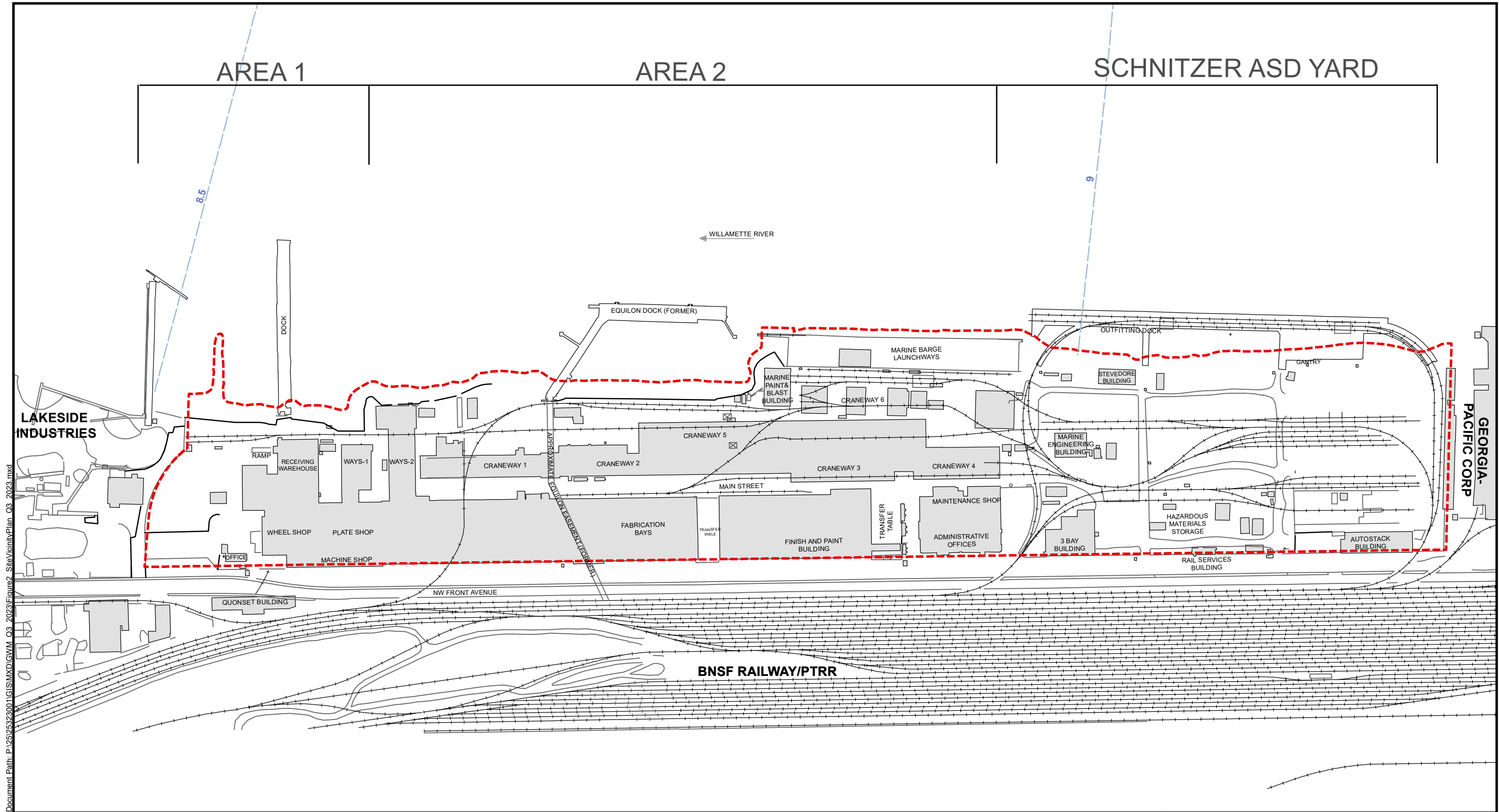
DATE: 12/11/2023

Site Location Map

Third Quarter 2023 Groundwater Monitoring Report
Former Gunderson LLC Facility
Portland, Oregon

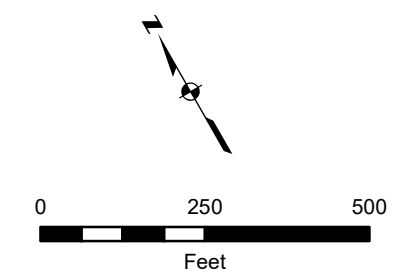
Figure
1

PROJECT:025323-001
-01/-02/-03



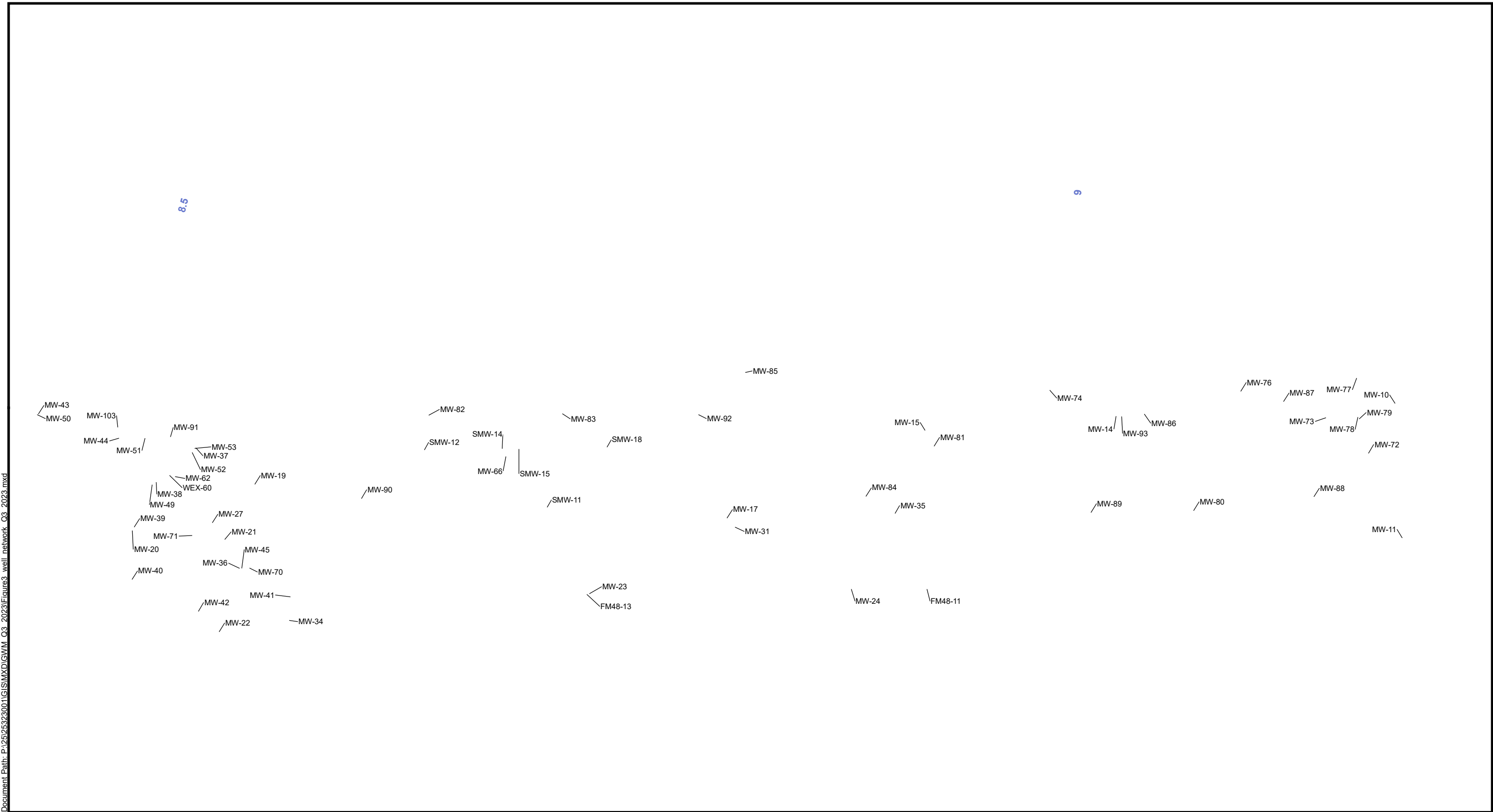
Document Path: P:\25323001\GIS\MXD\GWM_Q3_2023\Figure2_SiteVicinityPlan_Q3_2023.mxd

Legend
 - - - River Mile
 - - - Site Property Boundary



Site Vicinity Plan Third Quarter 2023 Groundwater Monitoring Report Former Gunderson LLC Facility Portland, Oregon		
		Figure 2
PREPARED BY: estrandhagen	DATE: 12/11/2023	PROJECT: 025323-001 -01/-02/-03

Document Path: P:\25\25323001\GIS\MXD\GWM_Q3_2023\Figure3_well_network_Q3_2023.mxd



Legend

Well Network

-  Decommissioned Monitoring Well
-  Monitoring Well - In Current Groundwater Monitoring Program
-  Monitoring Well - Not in Current Groundwater Monitoring Program

-  River Mile
-  Site Property Boundary



Groundwater Monitoring Well Network
Third Quarter 2023
Groundwater Monitoring Report
Former Gunderson LLC Facility
Portland, Oregon



Figure
3

PREPARED BY: estrandhagen

DATE: 12/11/2023

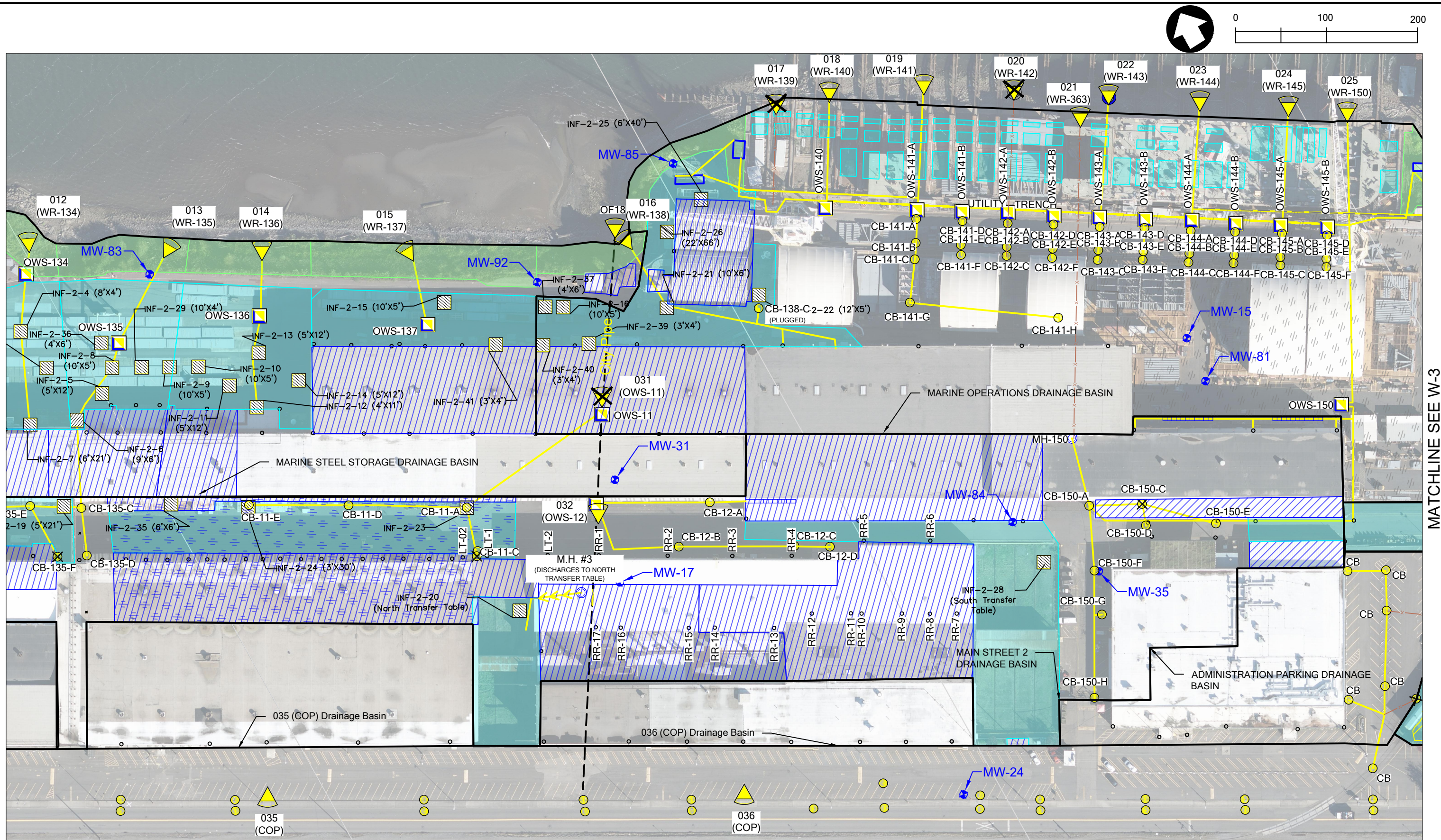
PROJECT:025323-001
-01/-02/-03

Sources:
Johnson Land Surveying; Minister and Glaeser Surveying.
Coordinate System:
North American Datum of 1983 (2011) State Plane Oregon North (International Feet)

APPENDIX A

Select Figures from December 2022 Gunderson Stormwater Pollution Control Plan

MATCHLINE SEE W-1



MATCHLINE SEE W-3

	Infiltration (INF)		Stormwater Drainage Basin B
	Outfall (WR) or Discharge Pt.		Infiltrated Ground Area
	Outfall (WR) Decommissioned		Infiltrated Roof Area
	Outfall-Overflow (WR)		Pervious Riverbank Area
	Oil Water Separator (OWS)		Monitoring Well Location
	Catch Basin (CB)/Decommission		
	Roof Down Spout (RD)		

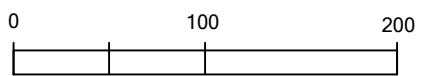
GROUNDWATER MONITORING WELLS

Scale: 1"=100'
Datum: NAVD88
Survey Base : 2020 V22

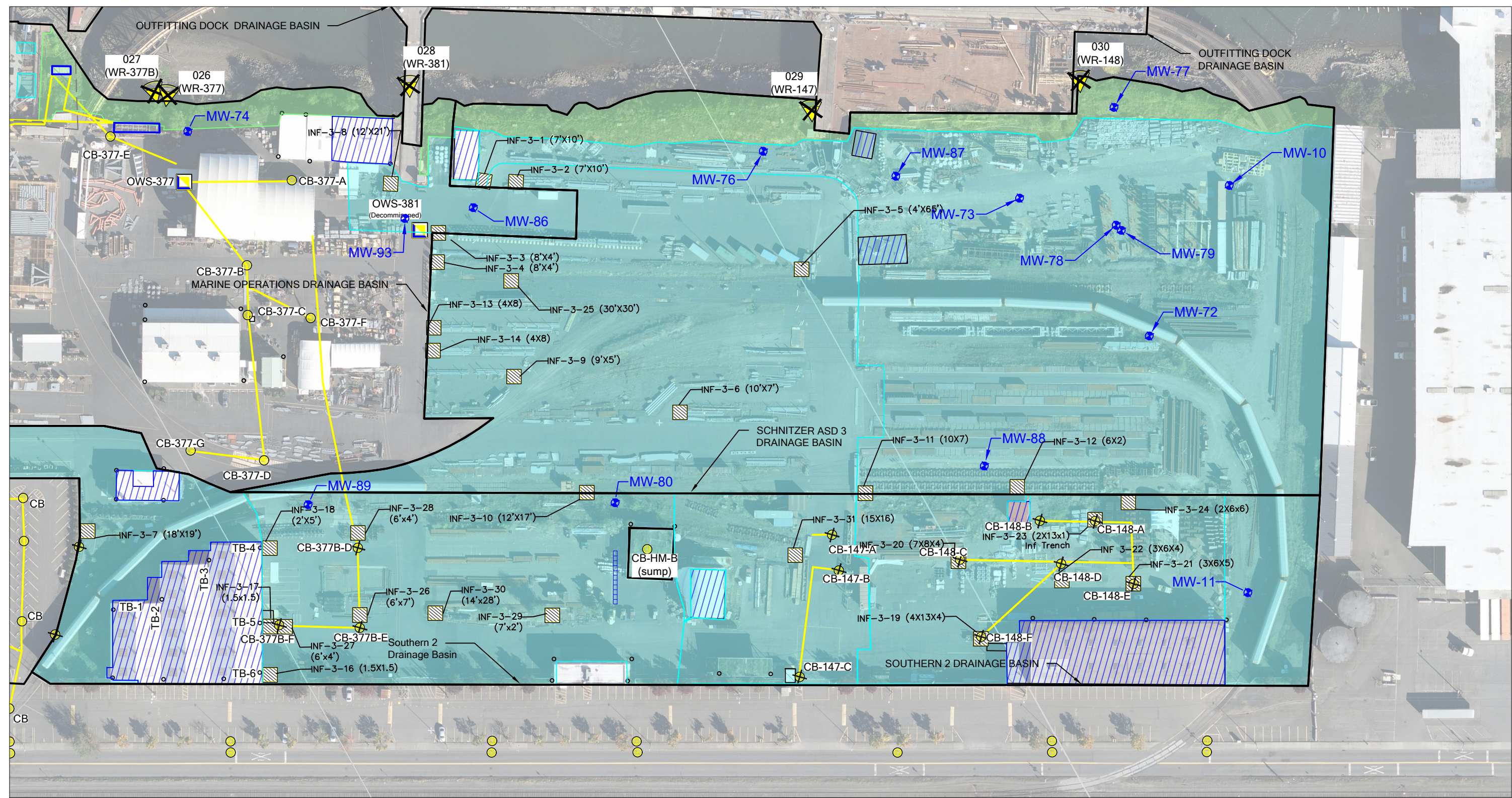
Gunderson LLC
4350 NW Front Ave.
Portland Oregon
GREENBRIER
Gunderson

Site Area - Central

STORM WATER POLLUTION
CONTROL PLAN
REV: 12/19/2022
SHEET: W-2



MATCHLINE SEE W-2



Infiltration (INF)	Stormwater Drainage Basin
Outfall (WR) or Discharge Pt.	Infiltrated Ground Area
Outfall (WR) Decommissioned	Infiltrated Roof Area
Outfall-Overflow (WR)	Pervious Riverbank Area
Oil Water Separator (OWS)	Monitoring Well Location
Catch Basin (CB)/Decommission	
Roof Down Spout (RD)	

GROUNDWATER
MONITORING WELLS
Scale: 1"=100'
Datum: NAVD88
Survey Base : 2020 V22

Gunderson LLC
4350 NW Front Ave.
Portland Oregon
GREENBRIER
Gunderson

Site Area - South

STORM WATER POLLUTION
CONTROL PLAN
REV: 12/19/2022
SHEET: W-3

APPENDIX B

Field Documentation

[illegible]

GEOENGINEERS

Well ID:	MW-74
Client:	Gunderson
Project:	3223 GW
Weather:	Rain, frost

Job Number:	—
Date:	8/31/23
Sampler:	SR
Time In/Out:	—

WF11 DATA

Monument Type:	Flush-mount/Stick-up	Well Diameter:	2"	Depth to Free Product:	—
	Other:	Well Depth:	—	Free Product Thickness:	—
Monument Condition:	Good	Depth to Water:	19.17	Water Column Length:	—
Well Cap Lock Present:	Yes No	Screened Interval:	—	Purge Volume:	—

Comments:

$$\text{Purge Volume} = (\text{Water Height}) \times (\text{Multiplier}) \times (\# \text{ Casing Volumes})$$

Water height multipliers (gal):	1-inch well = 0.041	2-inch = 0.162	4-inch = 0.653	1 gal = 3.785 liters
---------------------------------	---------------------	----------------	----------------	----------------------

PURGING DATA

Purge Method:	Peri Pump	Pump Intake Depth:	Mid - Screen
Sampling Method:	Low Flow	Tubing Material & Type:	LDPE
			NEW / DEDICATED

[illegible]

PURGING DATA

Sample ID:	MW-74	Sampling Flow Rate:	0.20	Analytical Laboratory:	Pro		
Sample Time:	10/18	Final Depth to Water:	18.68	Did Well Dewater:	No		
No. of Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID	
250	HNO3	T Met	No				
250	"	D Met	Yes	0.45 µm			

NOTES/ADDITIONAL COMMENTS

WELL MONITORING DATA SHEET

GEOENGINEERS



Well ID:	MW-93	Job Number:	
Client:	Gunderson	Date:	8/31/23
Project:	3023 GW1	Sampler:	SR
Weather:	RAIN, 60°F	Time In/Out:	—

WELL DATA

Monument Type:	Flush-mount/Stick-up	Well Diameter:	2"	Depth to Free Product:	—
	Other:	Well Depth:	—	Free Product Thickness:	—
Monument Condition:	Good	Depth to Water:	23.48	Water Column Length:	—
Well Cap Lock Present:	Yes No	Screened Interval:		Purge Volume:	—

Comments:

Purge Volume = (Water Height) X (Multiplier) X (# Casing Volumes)

Water height multipliers (gal): 1-inch well = 0.041 2-inch = 0.162 4-inch = 0.653 1 gal = 3.785 liters

PURGING DATA

Purge Method:	Pert Pump	Pump Intake Depth:	MW- Screen							
Sampling Method:	Low Flow	Tubing Material & Type:	LDPE NEW / DEDICATED							
Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5 °C	+/-5%	+/-0.5 ppm	+/-20 mV	
0944			23.91	0.20	6.54	17.0	877	0.02	-138	Clear
0947			23.91	0.20	6.56	16.9	873	1.06	-142	
0950			23.91	0.20	6.57	16.9	868	0.84	-143	
0953			↓	↓	6.58	16.9	853	0.63	-144	
0956			↓	↓	6.59	16.7	831	0.46	-145	

PURGING DATA

Sample ID:	MW-93	Sampling Flow Rate:	0.20	Analytical Laboratory:	Academy
Sample Time:	1000	Final Depth to Water:	23.91	Did Well Dewater:	No
No. of Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD Duplicate ID
250 Poly	HNO3	DMET	Yes	0.45 µm	
250 Poly	HNO3	TMET	No		

NOTES/ADDITIONAL COMMENTS

GEOENGINEERS

Well ID:	MW-103
Client:	Gunderson
Project:	5023 GWM
Weather:	RM. 60°F

Job Number:	5
Date:	8/31/23
Sampler:	SK
Time In/Out:	-

WELL DATA

Monument Type:	Flush-mount / Stick-up	Well Diameter:	2"	Depth to Free Product:	—
	Other:	Well Depth:	—	Free Product Thickness:	—
Monument Condition:	Good	Depth to Water:	29.36	Water Column Length:	—
Well Cap Lock Present:	Yes No	Screened Interval:	—	Purge Volume:	—

Comments:

$$\text{Purge Volume} = (\text{Water Height}) \times (\text{Multiplier}) \times (\# \text{ Casing Volumes})$$

Water height multipliers (gal):	1-inch well = 0.041	2-inch = 0.162	4-inch = 0.653	1 gal = 3.785 liters
---------------------------------	---------------------	----------------	----------------	----------------------

PURGING DATA

Purge Method:	Peri Pump	Pump Intake Depth:	10' - Screen	
Sampling Method:	Low Flow	Tubing Material & Type:	CRPE	NEW DEDICATED

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (mg/L)	ORP (mV)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5 °C	+/-5%	+/-0.5 ppm	+/-20 mV	

1246			30.51	0.20	6.53	15.5	319	1.22	39.0	Clear
1249			30.55	0.20	6.48	15.1	312	0.61	64.3	↓
1252			30.57	0.20	6.50	15.1	315	0.53	63.0	
1255			30.57	0.20	6.49	15.1	316	0.50	60.3	

PURGING DATA

Sample ID:	MW-103	Sampling Flow Rate:	0.20	Analytical Laboratory:	Adel
Sample Time:	1305	Final Depth to Water:	30.57	Did Well Dewater:	NO
No. of Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD
					Duplicate ID

[illegible]

NOTES/ADDITIONAL COMMENTS

APPENDIX C

Laboratory Report and Data Quality Review

APPENDIX C

LABORATORY REPORT AND DATA QUALITY REVIEW

This appendix presents a quality review of laboratory analytical data collected for this project. Groundwater and stormwater analyses were performed by Apex Laboratories of Tigard, Oregon, under work order A3H1560. The following describes the results of the data quality review and identifies qualifiers that were added to the data by the laboratory or GeoEngineers as a result of the data quality review.

- The laboratory control sample (LCS) percent recoveries for chloromethane and dichlorodifluoromethane in sample batch 23I0080 were outside of quality control limits. The same analytes failed the daily continuing calibration verification recovery $\pm 20\%$ criteria for the EPA method for the matrix spike (MS) in the same batch. These analytes are not contaminants of concern (COCs) at the facility and were not detected above the method reporting limit. No project data were flagged as a result.
- The relative percent difference for lead for the laboratory duplicate in sample batch 23I0023 was outside quality control limits. The quality control (QC) flag indicates that Apex Laboratories analyses are not controlled based on relative percent difference (RPD) values that are less than 5 times the reporting level. No project data were flagged as a result of this RPD exceedance. RPDs for the project sample analyzed as a lab duplicate were within quality control limits.
- The MS recovery for manganese in sample batch 23I0023 was outside of quality control limits. The QC result was flagged by the laboratory to indicate that the MS result is estimated due to the high concentration in the MS source sample. The associated sample was not related to the project, and no project data were flagged as a result.
- Relative Percent Differences (RPDs) between the primary samples and field duplicate samples were evaluated (see Table C-1). As shown in Table C-1, the RPDs between the primary and duplicate samples were within quality control limits (less than 30 percent). Results from both primary and duplicate samples are included in Table 5.

GeoEngineers reviewed the laboratory narratives, data, and QC data and determined that the data are appropriate for the intended use of evaluating groundwater conditions at the site.

Table C-1

Field Duplicate RPD Evaluation

Gunderson, LLC
Portland, Oregon

Monitoring Location	Analytical Group	Analyte	Primary Sample Result	Field Duplicate Result	RPD
			Concentrations in micrograms per liter		
MW-82	Metals	Total Antimony	11.3	12.1	6.8
		Dissolved Antimony	11.5	11.6	0.9
		Total Arsenic	84.7	85.8	1.3
		Dissolved Arsenic	85.0	83.3	2.0
		Total Barium	184	189	2.7
		Dissolved Barium	189	193	2.1
		Total Lead	1.93	1.69	13.3
		Dissolved Lead	0.24	0.23	1.7
		Total Manganese	1140	1150	0.9
		Dissolved Manganese	1220	1200	1.7
		Total Nickel	5.02	5.38	6.9
		Dissolved Nickel	4.99	4.92	1.4
		Total Zinc	57.4	56.2	2.1
		Dissolved Zinc	49.4	51.1	3.4

Notes:

1. RPD = relative percent difference.

$$\text{Percent RPD} = 100 \times (\text{primary sample result} - \text{field duplicate result}) / [(\text{primary sample result} + \text{field duplicate result}) / 2]$$

2. This table presents field duplicate results for analytes that were detected above the laboratory method reporting limit in both the primary and duplicate sample.

3. Shaded values exceed the quality control limit of 30 percent.

APPENDIX D

Historical Groundwater Elevations

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-19	7/22/1991	34.86	24.45	10.41
	4/2/1992	34.86	25.94	8.92
	6/6/1992	34.86	25.79	9.07
	7/20/1994	34.86	26.35	8.51
	10/25/1994	34.86	27.85	7.01
	2/17/1995	34.86	23.05	11.81
	4/18/1995	34.86	24.11	10.75
	7/25/1995	34.86	24.55	10.31
	10/19/1995	34.86	27.00	7.86
	4/23/1996	34.86	18.45	16.41
	8/2/1996	34.86	23.56	11.30
	11/5/1996	34.86	26.14	8.72
	1/23/1997	34.86	17.08	17.78
	4/16/1997	34.86	21.35	13.51
	7/15/1997	34.86	21.52	13.34
	11/3/1997	34.86	24.90	9.96
	2/5/1998	34.86	21.00	13.86
	9/16/1998	34.86	26.47	8.39
	12/30/1998	34.86	22.78	12.08
	5/24/1999	34.86	21.60	13.26
	8/18/1999	34.86	24.33	10.53
	12/21/1999	34.86	22.98	11.88
	4/25/2000	34.86	22.49	12.37
	10/25/2000	34.86	27.23	7.63
	11/27/2000	34.86	27.31	7.55
	2/9/2001	34.86	27.08	7.78
	5/15/2001	34.86	27.05	7.81
	8/7/2001	34.86	27.86	7.00
	12/5/2001	34.86	26.98	7.88
	4/9/2002	34.86	25.55	9.31
	7/29/2002	34.86	24.50	10.36
	11/26/2002	34.86	27.03	7.83
	3/4/2003	34.86	25.02	9.84
	5/19/2003	34.86	23.52	11.34
	12/9/2003	34.86	26.18	8.68
	3/30/2004	34.86	23.98	10.88
	8/19/2004	34.86	26.59	8.27
	11/22/2004	34.86	26.61	8.25
	2/11/2005	34.86	26.02	8.84
	5/18/2005	34.86	24.73	10.13
	9/16/2005	34.86	27.12	7.74
	11/8/2005	34.86	26.52	8.34

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-19 (continued)	3/16/2006	34.86	23.58	11.28
	11/17/2006	34.86	26.11	8.75
	5/22/2007	34.86	23.58	11.28
	8/22/2007	34.86	26.35	8.51
	11/6/2007	34.86	27.68	7.18
	2/11/2008	34.86	24.41	10.45
	5/12/2008	34.86	24.90	9.96
	8/4/2008	34.86	25.99	8.87
	11/14/2008	34.86	27.27	7.59
	2/16/2009	34.86	26.65	8.21
	5/27/2009	34.86	23.40	11.46
	8/18/2009	34.86	26.32	8.54
	12/8/2009	34.86	26.75	8.11
	3/15/2010	34.86	26.04	8.82
	6/1/2010	34.86	24.83	10.03
	8/30/2010	34.86	26.30	8.56
	11/29/2010	34.86	26.29	8.57
	3/30/2011	34.86	22.07	12.79
	9/14/2011	34.86	25.32	9.54
	12/12/2011	34.86	26.33	8.53
	7/2/2012	34.86	19.93	14.93
	9/26/2012	34.86	25.96	8.90
	12/3/2012	34.86	24.45	10.41
	3/22/2013	34.86	25.84	9.02
	6/17/2013	34.86	23.99	10.87
	9/9/2013	34.86	26.52	8.34
	12/10/2013	34.86	26.64	8.22
	3/24/2014	34.86	22.84	12.02
	6/11/2014	34.86	23.37	11.49
	9/19/2014	34.86	29.11	5.75
	12/17/2014	34.86	25.37	9.49
	3/9/2015	34.86	27.20	9.49
	6/25/2015	34.86	NM	–
	9/14/2015	34.86	27.41	7.45
	12/14/2015	34.86	25.70	9.16
	3/21/2016	34.86	22.21	12.65
	6/20/2016	34.86	24.93	9.93
	9/27/2016	34.86	27.41	7.45
	9/29/2016	34.86	27.50	7.36
	12/5/2016	34.86	24.93	9.93

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-19 (continued)	3/22/2017	34.86	17.13	17.73
	6/26/2017	34.86	20.23	14.63
	9/19/2017	34.86	26.34	8.52
	12/11/2017	34.86	25.35	9.51
	3/14/2018	34.86	24.3	10.56
	6/25/2018	34.86	23.41	11.45
	9/4/2018	34.86	26.51	8.35
	12/17/2018	37.46	27.06	10.40
	3/4/2019	37.46	25.95	11.51
	6/18/2019	37.46	24.32	13.14
	9/9/2019	37.46	27.18	10.28
	12/9/2019	37.46	27.63	9.83
	3/16/2020	37.46	25.53	11.93
	6/8/2020	37.46	22.90	14.56
	9/8/2020	37.46	26.37	11.09
	11/30/2020	37.46	26.45	11.01
	3/8/2021	37.46	24.31	13.15
	6/7/2021	37.46	25.33	12.13
	9/20/2021	37.46	27.41	10.05
	11/29/2021	37.46	26.29	11.17
	2/28/2022	37.46	25.15	12.31
	6/20/2022	37.46	18.41	19.05
MW-20	7/22/1991	36.99	29.56	7.43
	4/2/1992	36.99	29.08	7.91
	6/6/1992	36.99	28.10	8.89
	7/20/1994	36.99	29.10	7.89
	10/25/1994	36.99	30.56	6.43
	2/17/1995	36.99	25.35	11.64
	4/18/1995	36.99	26.21	10.78
	7/25/1995	36.99	28.05	8.94
	10/19/1995	36.99	31.30	5.69
	1/22/1996	36.99	19.32	17.67
	4/23/1996	36.99	20.81	16.18
	8/2/1996	36.99	26.80	10.19
	11/5/1996	36.99	29.53	7.46
	1/23/1997	36.99	21.26	15.73
	4/16/1997	36.99	24.47	12.52
	7/15/1997	36.99	24.47	12.52
	11/3/1997	36.99	27.08	9.91
	2/5/1998	36.99	25.70	11.29
	9/16/1998	36.99	29.68	7.31
	12/30/1998	36.99	22.19	14.80
	5/24/1999	36.99	24.19	12.80
	8/18/1999	36.99	27.39	9.60
	12/21/1999	36.99	23.36	13.63
	4/25/2000	36.99	23.27	13.72
	10/25/2000	36.99	30.08	6.91
	11/27/2000	36.99	29.48	7.51
	2/9/2001	36.99	29.25	7.74
	5/15/2001	36.99	29.82	7.17
	12/5/2001	36.99	26.69	10.30
	4/9/2002	36.99	28.24	8.75

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-20 (continued)	11/26/2002	36.99	29.97	7.02
	5/19/2003	36.99	25.75	11.24
	12/9/2003	36.99	27.93	9.06
	3/30/2004	36.99	28.01	8.98
	8/19/2004	36.99	29.35	7.64
	11/22/2004	36.99	30.02	6.97
	2/11/2005	36.99	28.26	8.73
	5/18/2005	36.99	26.21	10.78
	9/16/2005	36.99	30.49	6.50
	11/8/2005	36.99	28.57	8.42
	2/20/2006	36.99	26.95	10.04
	3/16/2006	36.99	26.82	10.17
	6/2/2006	36.99	22.67	14.32
	8/7/2006	36.99	29.15	7.84
	11/17/2006	36.99	26.75	10.24
	2/15/2007	36.99	28.51	8.48
	5/22/2007	36.99	25.79	11.20
	8/22/2007	36.99	29.80	7.19
	11/6/2007	36.99	31.00	5.99
	2/11/2008	36.99	26.47	10.52
	5/12/2008	36.99	26.10	10.89
	8/4/2008	36.99	28.29	8.70
	11/14/2008	36.99	27.89	9.10
	2/16/2009	36.99	28.70	8.29
	5/27/2009	36.99	24.01	12.98
	8/18/2009	36.99	30.07	6.92
	12/8/2009	36.99	28.92	8.07
	3/15/2010	36.99	28.56	8.43
	6/1/2010	36.99	26.54	10.45
	8/30/2010	36.99	29.81	7.18
	11/29/2010	36.99	28.58	8.41
	3/30/2011	36.99	24.38	12.61
	5/31/2011	36.99	17.98	19.01
	9/14/2011	36.99	28.93	8.06
	12/12/2011	36.99	28.93	8.06
	7/2/2012	36.99	21.51	15.48
	9/28/2012	36.99	29.58	7.41
	12/3/2012	36.99	25.30	11.69
MW-21	7/22/1991	35.28	26.75	8.53
	4/2/1992	35.28	27.53	7.75
	6/6/1992	35.28	26.67	8.61
	7/20/1994	35.28	27.65	7.63
	10/25/1994	35.28	29.16	6.12

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-21 (continued)	2/17/1995	35.28	23.98	11.30
	4/18/1995	35.28	24.81	10.47
	7/25/1995	35.28	26.45	8.83
	10/19/1995	35.28	28.40	6.88
	1/22/1996	35.28	17.55	17.73
	4/23/1996	35.28	19.40	15.88
	8/2/1996	35.28	29.19	6.09
	11/5/1996	35.28	27.95	7.33
	1/23/1997	35.28	18.64	16.64
	4/16/1997	35.28	22.95	12.33
	7/15/1997	35.28	22.95	12.33
	11/3/1997	35.28	25.62	9.66
	2/5/1998	35.28	23.15	12.13
	9/16/1998	35.28	28.13	7.15
	12/30/1998	35.28	21.41	13.87
	5/24/1999	35.28	22.69	12.59
	8/18/1999	35.28	25.82	9.46
	12/21/1999	35.28	22.14	13.14
	4/25/2000	35.28	22.03	13.25
	10/25/2000	35.28	28.65	6.63
	11/27/2000	35.28	28.04	7.24
	2/9/2001	35.28	27.85	7.43
	5/15/2001	35.28	28.36	6.92
	8/7/2001	35.28	28.96	6.32
	12/5/2001	35.28	25.64	9.64
	4/9/2002	35.28	26.76	8.52
	7/29/2002	35.28	26.51	8.77
	11/26/2002	35.28	28.40	6.88
	3/4/2003	35.28	26.67	8.61
	5/19/2003	35.28	24.34	10.94
	12/9/2003	35.28	26.71	8.57
	8/19/2004	35.28	27.55	7.73
	11/22/2004	35.28	26.65	8.63
	2/11/2005	35.28	26.60	8.68
	5/18/2005	35.28	24.79	10.49
	9/16/2005	35.28	28.61	6.67
	11/8/2005	35.28	26.94	8.34
	2/20/2006	35.28	24.97	10.31
	3/16/2006	35.28	25.05	10.23
	6/2/2006	35.28	20.93	14.35
	8/7/2006	35.28	27.27	8.01
	11/17/2006	35.28	25.15	10.13

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-21 (continued)	2/15/2007	35.28	26.65	8.63
	5/22/2007	35.28	24.04	11.24
	8/22/2007	35.28	27.90	7.38
	11/6/2007	35.28	29.12	6.16
	2/11/2008	35.28	24.75	10.53
	5/12/2008	35.28	24.51	10.77
	8/4/2008	35.28	26.48	8.80
	11/14/2008	35.28	26.75	8.53
	2/16/2009	35.28	27.77	7.51
	5/27/2009	35.28	22.49	12.79
	8/18/2009	35.28	28.10	7.18
	12/8/2009	35.28	27.22	8.06
	3/15/2010	35.28	26.81	8.47
	6/1/2010	35.28	24.85	10.43
	8/30/2010	35.28	27.91	7.37
	11/29/2010	35.28	26.73	8.55
	3/30/2011	35.28	22.61	12.67
	5/31/2011	35.28	16.48	18.80
	9/14/2011	35.28	27.02	8.26
	12/12/2011	35.28	27.17	8.11
	7/2/2012	35.28	19.85	15.43
	9/26/2012	35.28	27.74	7.54
	12/3/2012	35.28	23.89	11.39
	3/22/2013	35.28	27.09	8.19
	6/17/2013	35.28	25.25	10.03
	9/9/2013	35.28	27.94	7.34
	12/10/2013	35.28	27.55	7.73
	3/24/2014	35.28	23.79	11.49
	6/11/2014	35.28	23.43	11.85
	9/19/2014	35.28	28.60	6.68
	12/17/2014	35.28	26.11	9.17
	3/9/2015	34.86	25.75	9.49
	6/25/2015	35.28	28.12	7.16
	9/14/2015	35.28	28.45	6.83
	12/14/2015	35.28	22.80	12.48
	3/21/2016	35.28	22.65	12.63
	6/20/2016	35.28	26.36	8.92
	9/27/2016	35.28	28.72	6.56
	9/29/2016	35.28	28.60	6.68
	12/5/2016	35.28	25.44	9.84

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-21 (continued)	3/22/2017	35.28	16.21	19.07
	6/26/2017	35.28	21.51	13.77
	9/19/2017	35.28	27.56	7.72
	12/11/2017	35.28	26.62	8.66
	3/14/2018	35.28	25.38	9.90
	6/25/2018	35.28	24.92	10.36
	9/4/2018	35.28	28.39	6.89
	12/17/2018	37.38	27.89	9.49
	3/4/2019	37.38	27.16	10.22
	6/18/2019	37.38	25.54	11.84
	9/9/2019	37.38	28.75	8.63
	12/9/2019	37.38	28.36	9.02
	3/16/2020	37.38	27.09	10.29
	6/8/2020	37.38	22.11	15.27
	9/8/2020	37.38	28.10	9.28
	11/30/2020	37.38	27.25	10.13
	3/8/2021	37.38	25.67	11.71
	6/7/2021	37.38	25.17	12.21
	9/20/2021	37.38	28.53	8.85
	11/29/2021	37.38	27.00	10.38
	2/28/2022	37.38	26.24	11.14
	6/20/2022	37.38	18.18	19.2
MW-22	7/22/1991	37.81	28.98	8.83
	4/2/1992	37.81	29.81	8.00
	6/6/1992	37.81	28.96	8.85
	7/20/1994	37.81	29.90	7.91
	10/25/1994	37.81	31.40	6.41
	2/17/1995	37.81	26.14	11.67
	4/18/1995	37.81	26.99	10.82
	7/25/1995	37.81	28.80	9.01
	10/19/1995	37.81	30.81	7.00
	1/22/1996	37.81	19.40	18.41
	4/23/1996	37.81	21.49	16.32
	8/2/1996	37.81	27.48	10.33
	11/5/1996	37.81	30.78	7.03
	1/23/1997	37.81	21.81	16.00
	4/16/1997	37.81	25.22	12.59
	7/15/1997	37.81	25.22	12.59
	11/3/1997	37.81	27.85	9.96
	2/5/1998	37.81	25.34	12.47
	9/16/1998	37.81	30.43	7.38
	12/30/1998	37.81	22.92	14.89
	5/24/1999	37.81	24.92	12.89
	8/18/1999	37.81	28.11	9.70
	12/21/1999	37.81	24.05	13.76
	4/25/2000	37.81	24.05	13.76
	10/25/2000	37.81	30.97	6.84
	11/27/2000	37.81	30.22	7.59
	2/9/2001	37.81	30.08	7.73
	5/15/2001	37.81	30.59	7.22
	8/7/2001	37.81	31.15	6.66
	12/5/2001	37.81	27.38	10.43

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-22 (continued)	4/9/2002	37.81	28.98	8.83
	7/29/2002	37.81	29.02	8.79
	11/26/2002	37.81	30.67	7.14
	3/4/2003	37.81	28.99	8.82
	5/19/2003	37.81	26.51	11.30
	12/9/2003	37.81	28.74	9.07
	3/30/2004	37.81	28.76	9.05
	8/19/2004	37.81	30.02	7.79
	11/22/2004	37.81	30.62	7.19
	2/11/2005	37.81	29.05	8.76
	5/18/2005	37.81	27.08	10.73
	3/16/2006	37.81	27.49	10.32
	6/2/2006	37.81	23.14	14.67
	8/7/2006	37.81	29.92	7.89
	11/17/2006	37.81	27.34	10.47
	2/15/2007	37.81	29.23	8.58
	5/22/2007	37.81	26.50	11.31
	8/22/2007	37.81	30.63	7.18
	11/6/2007	37.81	31.73	6.08
	2/11/2008	37.81	27.00	10.81
	5/12/2008	37.81	26.85	10.96
	8/4/2008	37.81	29.04	8.77
	11/14/2008	37.81	28.70	9.11
	2/16/2009	37.81	29.45	8.36
	12/8/2009	37.81	29.64	8.17
	9/14/2011	37.81	29.73	8.08
	7/2/2012	37.81	22.94	14.87
	9/26/2012	37.81	30.59	7.22
	12/3/2012	37.81	27.89	9.92
	3/22/2013	37.81	29.68	8.13
	6/17/2013	37.81	27.90	9.91
	9/9/2013	37.81	30.59	7.22
	12/10/2013	37.81	30.10	7.71
	3/24/2014	37.81	26.30	11.51
	6/11/2014	37.81	26.05	11.76
	9/19/147	37.81	31.41	6.40
	12/17/2014	37.81	28.41	9.40
	3/9/2015	34.86	28.38	9.49
	6/25/2015	37.81	30.88	6.93
	9/14/2015	37.81	31.15	6.66
	12/14/2015	37.81	24.50	13.31

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-22 (continued)	3/21/2016	37.81	24.98	12.83
	6/20/2016	37.81	29.02	8.79
	9/27/2016	37.81	31.71	6.10
	9/29/2016	37.81	31.20	6.61
	12/5/2016	37.81	27.91	9.90
	3/22/2017	37.81	18.31	19.50
	6/26/2017	37.81	24.19	13.62
	9/19/2017	37.81	30.15	7.66
	12/11/2017	37.81	29.17	8.64
	3/14/2018	37.81	28.00	9.81
	6/25/2018	37.81	27.63	10.18
	9/4/2018	37.81	31.40	6.41
	12/17/2018	39.93	30.29	9.64
	3/4/2019	39.93	29.78	10.15
	6/18/2019	39.93	28.32	11.61
	9/9/2019	39.93	31.58	8.35
	12/9/2019	39.93	30.99	8.94
	3/16/2020	39.93	29.78	10.15
	6/8/2020	39.93	23.45	16.48
	9/8/2020	39.93	30.98	8.95
	11/30/2020	39.93	29.90	10.03
	3/8/2021	39.93	28.17	11.76
	6/7/2021	39.93	27.50	12.43
	9/20/2021	39.93	31.25	8.68
	11/29/2021	39.93	29.56	10.37
	2/28/2022	39.93	28.73	11.20
	6/20/2022	39.93	20.86	19.07
MW-27	4/2/1992	35.01	26.94	8.07
	6/6/1992	35.01	26.17	8.84
	7/20/1994	35.01	27.20	7.81
	10/25/1994	35.01	28.67	6.34
	2/17/1995	35.01	23.45	11.56
	4/18/1995	35.01	24.32	10.69
	7/25/1995	35.01	26.00	9.01
	10/19/1995	35.01	28.60	6.41
	1/22/1996	35.01	17.55	17.46
	4/23/1996	35.01	18.95	16.06
	8/2/1996	35.01	24.74	10.27
	11/5/1996	35.01	27.48	7.53
	1/23/1997	35.01	19.26	15.75
	4/16/1997	35.01	22.50	12.51
	7/15/1997	35.01	22.46	12.55
	11/3/1997	35.01	25.18	9.83
	2/5/1998	35.01	22.77	12.24
	9/16/1998	35.01	27.71	7.30
	12/30/1998	35.01	20.67	14.34
	5/24/1999	35.01	22.25	12.76
	8/18/1999	35.01	25.31	9.70
	12/21/1999	35.01	21.61	13.40
	4/25/2000	35.01	21.49	13.52
	10/25/2000	35.01	28.12	6.89
	11/27/2000	35.01	27.56	7.45

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-27 (continued)	2/9/2001	35.01	27.32	7.69
	5/15/2001	35.01	27.80	7.21
	8/7/2001	35.01	28.42	6.59
	12/5/2001	35.01	25.06	9.95
	4/9/2002	35.01	26.46	8.55
	7/29/2002	35.01	26.20	8.81
	11/26/2002	35.01	27.91	7.10
	3/4/2003	35.01	26.22	8.79
	5/19/2003	35.01	23.86	11.15
	12/9/2003	35.01	26.20	8.81
	3/30/2004	35.01	25.92	9.09
	8/19/2004	35.01	27.14	7.87
	11/22/2004	35.01	27.94	7.07
	2/11/2005	35.01	26.44	8.57
	5/18/2005	35.01	24.61	10.40
	9/16/2005	35.01	28.42	6.59
	11/8/2005	35.01	26.82	8.19
	2/20/2006	35.01	24.85	10.16
	6/2/2006	35.01	20.81	14.20
	8/7/2006	35.01	27.13	7.88
	11/17/2006	35.01	25.12	9.89
	2/15/2007	35.01	26.46	8.55
	5/22/2007	35.01	23.88	11.13
	8/22/2007	35.01	27.68	7.33
	11/6/2007	35.01	28.91	6.10
	2/11/2008	35.01	24.79	10.22
	5/12/2008	35.01	24.60	10.41
	8/4/2008	35.01	26.22	8.79
	11/14/2008	35.01	26.40	8.61
	2/16/2009	35.01	26.84	8.17
	5/27/2009	35.01	23.52	11.49
	8/18/2009	35.01	26.70	8.31
	12/7/2009	35.01	27.00	8.01
	3/15/2010	35.01	26.63	8.38
	6/1/2010	35.01	24.79	10.22
	8/30/2010	35.01	27.76	7.25
	11/29/2010	35.01	26.47	8.54
	3/30/2011	35.01	22.50	12.51
	5/31/2011	35.01	16.41	18.60
	9/14/2011	35.01	26.90	8.11
	12/12/2011	35.01	27.05	7.96

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-27 (continued)	7/2/2012	35.01	19.70	15.31
	9/26/2012	35.01	27.67	7.34
	12/3/2012	35.01	23.69	11.32
	3/22/2013	35.01	26.98	8.03
	6/17/2013	35.01	25.21	9.80
	9/9/2013	35.01	27.81	7.20
	12/10/2013	35.01	27.37	7.64
	3/24/2014	35.01	23.69	11.32
	6/11/2014	35.01	23.39	11.62
	9/19/2014	35.01	28.42	6.59
	12/17/2014	35.01	25.89	9.12
	3/9/2015	34.86	25.60	9.49
	6/25/2015	35.01	27.93	7.08
	9/14/2015	35.01	28.18	6.83
	12/14/2015	35.01	22.55	12.46
	3/21/2016	35.01	22.46	12.55
	6/20/2016	35.01	26.18	8.83
	9/27/2016	35.01	28.51	6.50
	9/29/2016	35.01	28.45	6.56
	12/5/2016	35.01	25.20	9.81
	3/22/2017	35.01	15.90	19.11
	6/26/2017	35.01	21.40	13.61
	9/19/2017	35.01	27.34	7.67
	12/11/2017	35.01	26.45	8.56
	3/14/2018	35.01	25.28	9.73
	6/25/2018	35.01	24.68	10.33
	9/4/2018	35.01	28.33	6.68
	12/17/2018	37.10	27.50	9.60
	3/4/2019	37.10	26.94	10.16
	6/18/2019	37.10	25.35	11.75
	9/9/2019	37.10	28.64	8.46
	12/9/2019	37.10	28.14	8.96
	3/16/2020	37.10	26.90	10.20
	6/8/2020	37.10	21.83	15.27
	9/8/2020	37.10	27.95	9.15
	11/30/2020	37.10	27.00	10.10
	3/8/2021	37.10	25.48	11.62
	6/7/2021	37.10	24.90	12.20
	9/20/2021	37.10	28.18	8.92
	11/29/2021	37.10	26.79	10.31
	2/28/2022	37.10	26.11	10.99
	6/20/2022	37.10	17.93	19.17
	11/28/2022	37.10	27.25	9.85
	5/31/2023	37.10	23.05	14.05
MW-34	4/18/1995	39.19	28.37	10.82
	7/25/1995	39.19	30.20	8.99
	10/19/1995	39.19	32.05	7.14
	1/22/1996	39.19	21.40	17.79
	4/23/1996	39.19	22.95	16.24
	8/2/1996	39.19	28.89	10.30
	11/5/1996	39.19	31.76	7.43
	1/23/1997	39.19	22.81	16.38
	4/16/1997	39.19	26.26	12.93
	7/15/1997	39.19	26.61	12.58
	11/3/1997	39.19	29.25	9.94

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-34 (continued)	2/5/1998	39.19	26.70	12.49
	9/16/1998	39.19	31.82	7.37
	12/30/1998	39.19	24.41	14.78
	5/24/1999	39.19	26.31	12.88
	8/18/1999	39.19	29.52	9.67
	12/21/1999	39.19	25.51	13.68
	4/25/2000	39.19	25.47	13.72
	10/25/2000	39.19	32.36	6.83
	11/27/2000	39.19	31.65	7.54
	2/9/2001	39.19	31.55	7.64
	5/15/2001	39.19	31.98	7.21
	8/7/2001	39.19	32.53	6.66
	12/5/2001	39.19	28.92	10.27
	4/9/2002	39.19	30.39	8.80
	7/29/2002	39.19	30.35	8.84
	11/26/2002	39.19	32.09	7.10
	3/4/2003	39.19	30.38	8.81
	5/19/2003	39.19	27.90	11.29
	12/9/2003	39.19	30.18	9.01
	3/30/2004	39.19	30.15	9.04
	8/19/2004	39.19	31.42	7.77
	11/22/2004	39.19	31.98	7.21
	2/11/2005	39.19	30.27	8.92
	5/18/2005	39.19	28.52	10.67
	9/16/2005	39.19	32.57	6.62
	11/8/2005	39.19	30.72	8.47
	3/16/2006	39.19	28.91	10.28
	6/2/2006	39.19	24.77	14.42
	8/7/2006	39.19	31.32	7.87
	11/17/2006	39.19	28.83	10.36
	2/15/2007	39.19	30.60	8.59
	5/22/2007	39.19	27.93	11.26
	8/22/2007	39.19	32.02	7.17
	11/6/2007	39.19	33.10	6.09
	2/11/2008	39.19	28.50	10.69
	5/12/2008	39.19	28.22	10.97
	8/4/2008	39.19	30.41	8.78
	11/14/2008	39.19	30.20	8.99
	2/16/2009	39.19	30.80	8.39

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-36	9/16/1998	36.82	29.48	7.34
	12/30/1998	36.82	22.09	14.73
	5/24/1999	36.82	23.95	12.87
	8/18/1999	36.82	27.17	9.65
	12/21/1999	36.82	23.19	13.63
	4/25/2000	36.82	23.11	13.71
	10/25/2000	36.82	29.17	7.65
	11/27/2000	36.82	29.30	7.52
	2/9/2001	36.82	29.00	7.82
	5/15/2001	36.82	29.88	6.94
	8/7/2001	36.82	30.16	6.66
	12/5/2001	36.82	26.50	10.32
	4/9/2002	36.82	28.01	8.81
	7/29/2002	36.82	28.06	8.76
	11/26/2002	36.82	29.69	7.13
	3/4/2003	36.82	27.97	8.85
	5/19/2003	36.82	25.52	11.30
	12/9/2003	36.82	27.75	9.07
	3/30/2004	36.82	27.70	9.12
	8/19/2004	36.82	29.16	7.66
	11/22/2004	36.82	29.48	7.34
	2/11/2005	36.82	28.08	8.74
	5/18/2005	36.82	26.10	10.72
	9/16/2005	36.82	30.32	6.50
	11/8/2005	36.82	28.35	8.47
	1/16/2006	36.82	20.55	16.27
	2/20/2006	36.82	27.20	9.62
	3/16/2006	36.82	26.62	10.20
	6/2/2006	36.82	22.45	14.37
	8/7/2006	36.82	29.02	7.80
	11/17/2006	36.82	26.51	10.31
	2/15/2007	36.82	28.29	8.53
	5/22/2007	36.82	25.54	11.28
	8/22/2007	36.82	29.69	7.13
	11/6/2007	36.82	30.76	6.06
	2/11/2008	36.82	24.12	12.70
	5/12/2008	36.82	25.85	10.97
	8/4/2008	36.82	28.08	8.74
	11/14/2008	36.82	27.81	9.01
	2/16/2009	36.82	28.34	8.48
	5/27/2009	36.82	23.93	12.89
	8/18/2009	36.82	29.82	7.00

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-36 (continued)	12/8/2009	36.82	28.80	8.02
	3/15/2010	36.82	28.35	8.47
	6/1/2010	36.82	26.35	10.47
	8/30/2010	36.82	29.63	7.19
	11/29/2010	36.82	28.29	8.53
	3/30/2011	36.82	24.08	12.74
	5/31/2011	36.82	17.71	19.11
	9/14/2011	36.82	28.80	8.02
	12/12/2011	36.82	28.74	8.08
	7/2/2012	36.82	21.30	15.52
	9/26/2012	36.82	29.55	7.27
	12/3/2012	36.82	25.10	11.72
	3/22/2013	36.82	28.71	8.11
	6/17/2013	36.82	26.95	9.87
	9/9/2013	36.82	29.55	7.27
	12/10/2013	36.82	29.11	7.71
	3/24/2014	36.82	25.41	11.41
	6/11/2014	36.82	25.10	11.72
	9/19/2014	36.82	30.32	6.50
	12/17/2014	36.82	27.63	9.19
	3/9/2015	34.86	27.40	9.49
	6/25/2015	36.82	21.42	15.40
	9/16/2015	36.82	29.90	6.92
	12/14/2015	36.82	23.57	13.25
	3/21/2016	36.82	24.10	12.72
	6/20/2016	36.82	28.08	8.74
	9/27/2016	36.82	30.41	6.41
	9/29/2016	36.82	30.21	6.61
	12/5/2016	36.82	27.01	9.81
	3/22/2017	36.82	17.38	19.44
	6/26/2017	36.82	23.19	13.63
	9/20/2017	36.82	29.10	7.72
	12/11/2017	36.82	28.35	8.47
	3/14/2018	36.82	27.00	9.82
	6/25/2018	36.82	26.65	10.17
	9/4/2018	36.82	30.39	6.43
	12/17/2018	38.89	29.41	9.48
	3/4/2019	38.89	29.01	9.88
	6/18/2019	38.89	27.23	11.66
	9/9/2019	38.89	30.62	8.27
	12/9/2019	38.89	30.01	8.88
	3/16/2020	38.89	28.88	10.01
	6/8/2020	38.89	23.48	15.41
	9/8/2020	38.89	29.95	8.94
	11/30/2020	38.89	28.93	9.96
	3/8/2021	38.89	27.35	11.54
	6/7/2021	38.89	26.49	12.40
	9/20/2021	38.89	30.09	8.80
	11/29/2021	38.89	28.52	10.37
	2/28/2022	38.89	27.89	11.00
	6/20/2022	38.89	19.56	19.33
	11/28/2022	38.89	28.96	9.93
	5/31/2023	38.89	24.85	14.04

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-37	9/16/1998	34.36	27.00	7.36
	12/30/1998	34.36	19.87	14.49
	5/24/1999	34.36	21.70	12.66
	8/18/1999	34.36	26.02	8.34
	12/21/1999	34.36	21.16	13.20
	4/25/2000	34.36	21.03	13.33
	10/25/2000	34.36	27.48	6.88
	11/27/2000	34.36	27.98	6.38
	2/9/2001	34.36	26.75	7.61
	5/15/2001	34.36	27.02	7.34
	8/7/2001	34.36	27.82	6.54
	12/5/2001	34.36	24.36	10.00
	4/9/2002	34.36	25.67	8.69
	7/29/2002	34.36	25.51	8.85
	11/26/2002	34.36	27.25	7.11
	3/4/2003	34.36	25.68	8.68
	5/19/2003	34.36	23.34	11.02
	12/9/2003	34.36	26.20	8.16
	3/30/2004	34.36	25.79	8.57
	8/19/2004	34.36	26.73	7.63
	11/22/2004	34.36	27.51	6.85
	2/11/2005	34.36	26.23	8.13
	5/18/2005	34.36	24.22	10.14
	9/16/2005	34.36	27.88	6.48
	11/8/2005	34.36	26.49	7.87
	2/20/2006	34.36	25.80	8.56
	3/16/2006	34.36	24.45	9.91
	6/2/2006	34.36	20.54	13.82
	8/7/2006	34.36	26.72	7.64
	2/15/2007	34.36	26.27	8.09
	5/22/2007	34.36	23.58	10.78
	8/22/2007	34.36	27.21	7.15
	11/6/2007	34.36	28.30	6.06
	2/11/2008	34.36	25.55	8.81
	5/12/2008	34.36	25.10	9.26
	8/4/2008	34.36	26.28	8.08
	11/14/2008	34.36	26.10	8.26
	2/16/2009	34.36	26.55	7.81
	5/27/2009	34.36	22.10	12.26
	8/18/2009	34.36	27.34	7.02
	12/8/2009	34.36	26.50	7.86

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-37 (continued)	3/15/2010	34.36	26.30	8.06
	6/1/2010	34.36	25.44	8.92
	8/30/2010	34.36	27.31	7.05
	11/29/2010	34.36	26.19	8.17
	3/30/2011	34.36	22.48	11.88
	5/31/2011	34.36	16.26	18.10
	9/14/2011	34.36	26.64	7.72
	12/12/2011	34.36	26.71	7.65
	7/2/2012	34.36	19.53	14.83
	9/26/2012	34.36	27.16	7.20
	12/3/2012	34.36	23.81	10.55
MW-38	9/16/1998	34.87	27.54	7.33
	12/30/1998	34.87	19.97	14.90
	5/24/1999	34.87	22.06	12.81
	8/18/1999	34.87	25.31	9.56
	12/21/1999	34.87	21.28	13.59
	4/25/2000	34.87	21.26	13.61
	10/25/2000	34.87	28.00	6.87
	11/27/2000	34.87	27.36	7.51
	2/9/2001	34.87	27.20	7.67
	5/15/2001	34.87	27.72	7.15
	8/7/2001	34.87	28.27	6.60
	12/5/2001	34.87	24.63	10.24
	4/9/2002	34.87	26.20	8.67
	7/29/2002	34.87	26.16	8.71
	11/26/2002	34.87	27.85	7.02
	3/4/2003	34.87	26.11	8.76
	5/19/2003	34.87	23.66	11.21
	12/9/2003	34.87	25.88	8.99
	3/30/2004	34.87	25.93	8.94
	8/19/2004	34.87	27.22	7.65
	11/22/2004	34.87	28.08	6.79
	2/11/2005	34.87	26.48	8.39
	5/18/2005	34.87	24.52	10.35
	9/16/2005	34.87	28.60	6.27
	11/8/2005	34.87	26.61	8.26
	2/20/2006	34.87	25.56	9.31
	3/16/2006	34.87	24.46	10.41
	6/2/2006	34.87	20.87	14.00
	8/7/2006	34.87	27.26	7.61
	11/17/2006	34.87	24.84	10.03

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-38 (continued)	2/15/2007	34.87	26.62	8.25
	5/22/2007	34.87	23.87	11.00
	8/22/2007	34.87	27.85	7.02
	11/6/2007	34.87	29.00	5.87
	2/11/2008	34.87	22.64	12.23
	5/12/2008	34.87	24.35	10.52
	8/4/2008	34.87	26.34	8.53
	11/14/2008	34.87	26.02	8.85
	2/16/2009	34.87	26.77	8.10
	5/27/2009	34.87	23.10	11.77
	8/18/2009	34.87	27.98	6.89
	12/8/2009	34.87	27.15	7.72
	3/15/2010	34.87	26.43	8.44
	6/1/2010	34.87	24.61	10.26
	8/30/2010	34.87	27.86	7.01
	11/29/2010	34.87	26.79	8.08
	3/30/2011	34.87	22.59	12.28
	5/31/2011	34.87	16.14	18.73
	9/14/2011	34.87	27.16	7.71
	12/12/2011	34.87	27.19	7.68
	7/2/2012	34.87	19.96	14.91
	9/26/2012	34.87	27.89	6.98
	12/3/2012	34.87	23.76	11.11
	12/11/2017	34.87	26.43	8.44
MW-39	9/16/1998	37.04	29.74	7.30
	12/30/1998	37.04	22.01	15.03
	5/24/1999	37.04	24.31	12.73
	8/18/1999	37.04	27.47	9.57
	12/21/1999	37.04	23.45	13.59
	4/25/2000	37.04	23.31	13.73
	10/25/2000	37.04	30.17	6.87
	11/27/2000	37.04	29.56	7.48
	2/9/2001	37.04	29.34	7.70
	5/15/2001	37.04	29.90	7.14
	8/7/2001	37.04	30.40	6.64
	12/5/2001	37.04	26.75	10.29
	4/9/2002	37.04	28.33	8.71
	7/29/2002	37.04	28.41	8.63
	11/26/2002	37.04	30.01	7.03

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-39 (continued)	3/4/2003	37.04	28.30	8.74
	5/19/2003	37.04	25.80	11.24
	12/9/2003	37.04	28.00	9.04
	3/30/2004	37.04	28.08	8.96
	8/19/2004	37.04	29.35	7.69
	11/22/2004	37.04	30.03	7.01
	2/11/2005	37.04	28.35	8.69
	5/18/2005	37.04	26.27	10.77
	9/16/2005	37.04	30.59	6.45
	2/20/2006	37.04	27.66	9.38
	3/16/2006	37.04	26.93	10.11
	6/2/2006	37.04	22.75	14.29
	8/7/2006	37.04	29.27	7.77
	11/17/2006	37.04	26.81	10.23
	2/15/2007	37.04	28.63	8.41
	5/22/2007	37.04	25.88	11.16
	8/22/2007	37.04	30.00	7.04
	11/6/2007	37.04	31.07	5.97
	2/11/2008	37.04	24.54	12.50
	5/12/2008	37.04	26.20	10.84
	8/4/2008	37.04	28.35	8.69
	11/14/2008	37.04	28.03	9.01
	2/16/2009	37.04	28.69	8.35
	5/27/2009	37.04	24.01	13.03
	8/18/2009	37.04	30.18	6.86
	12/8/2009	37.04	29.00	8.04
	3/15/2010	37.04	28.62	8.42
	6/1/2010	37.04	26.60	10.44
	8/30/2010	37.04	29.90	7.14
	11/29/2010	37.04	28.66	8.38
	3/30/2011	37.04	24.36	12.68
	5/31/2011	37.04	17.93	19.11
	9/14/2011	37.04	29.04	8.00
	12/12/2011	37.04	29.02	8.02
	7/2/2012	37.04	21.66	15.38
	9/26/2012	37.04	29.88	7.16
	12/3/2012	37.04	25.34	11.70

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-39 (continued)	3/22/2013	37.04	29.09	7.95
	6/17/2013	37.04	27.32	9.72
	9/9/2013	37.04	28.88	8.16
	12/10/2013	37.04	29.40	7.64
	3/24/2014	37.04	25.80	11.24
	6/11/2014	37.04	25.52	11.52
	9/19/2014	37.04	30.78	6.26
	12/17/2014	37.04	27.98	9.06
	3/9/2015	34.86	26.45	9.49
	6/25/2015	37.04	NM	—
	9/14/2015	37.04	30.27	6.77
	12/14/2015	37.04	23.90	13.14
	3/21/2016	37.04	24.52	12.52
	6/20/2016	37.04	28.42	8.62
	9/27/2016	37.04	30.71	6.33
	9/29/2016	37.04	30.45	6.59
	12/5/2016	37.04	27.33	9.71
	3/22/2017	37.04	17.69	19.35
	6/26/2017	37.04	23.55	13.49
	9/19/2017	37.04	29.40	7.64
	12/11/2017	37.04	28.68	8.36
	3/14/2018	37.04	27.4	9.64
	6/25/2018	37.04	27	10.04
	9/4/2018	37.04	30.70	6.34
	12/17/2018	39.14	29.67	9.47
	3/4/2019	39.14	29.33	9.81
	6/18/2019	39.14	27.75	11.39
	9/9/2019	39.14	30.94	8.20
	12/9/2019	39.14	30.30	8.84
	3/16/2020	39.14	29.26	9.88
	6/8/2020	39.14	23.70	15.44
	9/8/2020	39.14	30.25	8.89
	11/30/2020	39.14	29.16	9.98
	3/8/2021	39.14	27.62	11.52
	6/7/2021	39.14	26.74	12.40
	9/20/2021	39.14	30.45	8.69
	11/29/2021	39.14	28.80	10.34
	2/28/2022	39.14	28.21	10.93
	6/20/2022	39.14	19.86	19.28
	11/28/2022	39.14	29.22	9.92
	5/31/2023	39.14	25.24	13.90
MW-40	9/16/1998	39.49	32.23	7.26
	12/30/1998	39.49	24.44	15.05
	5/24/1999	39.49	26.72	12.77
	8/18/1999	39.49	29.89	9.60
	12/21/1999	39.49	25.85	13.64
	4/25/2000	39.49	25.79	13.70
	10/25/2000	39.49	32.80	6.69
	11/27/2000	39.49	32.01	7.48
	2/9/2001	39.49	31.88	7.61
	5/15/2001	39.49	32.32	7.17
	8/7/2001	39.49	32.92	6.57
	12/5/2001	39.49	29.19	10.30
	4/9/2002	39.49	30.80	8.69
	7/29/2002	39.49	30.90	8.59
	11/26/2002	39.49	32.39	7.10

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-40 (continued)	3/4/2003	39.49	30.80	8.69
	5/19/2003	39.49	28.23	11.26
	12/9/2003	39.49	30.46	9.03
	3/30/2004	39.49	30.56	8.93
	8/19/2004	39.49	31.72	7.77
	11/22/2004	39.49	32.27	7.22
	2/11/2005	39.49	30.81	8.68
	5/18/2005	39.49	22.84	16.65
	9/16/2005	39.49	32.96	6.53
	11/8/2005	39.49	31.15	8.34
	3/16/2006	39.49	29.30	10.19
	6/2/2006	39.49	25.17	14.32
	8/7/2006	39.49	31.65	7.84
	11/17/2006	39.49	29.19	10.30
	2/15/2007	39.49	31.00	8.49
	5/22/2007	39.49	28.23	11.26
	8/22/2007	39.49	32.41	7.08
	11/6/2007	39.49	33.50	5.99
	2/11/2008	39.49	26.92	12.57
	5/12/2008	39.49	28.60	10.89
	8/4/2008	39.49	30.75	8.74
	11/14/2008	39.49	30.39	9.10
	2/16/2009	39.49	31.08	8.41
	5/27/2009	39.49	26.44	13.05
	8/18/2009	39.49	32.49	7.00
	12/8/2009	39.49	31.62	7.87
	3/15/2010	39.49	31.00	8.49
	6/1/2010	39.49	29.00	10.49
	8/30/2010	39.49	32.25	7.24
	11/29/2010	39.49	30.94	8.55
	3/30/2011	39.49	26.80	12.69
	5/31/2011	39.49	20.32	19.17
	9/14/2011	39.49	31.51	7.98
	12/12/2011	39.49	31.39	8.10
	7/2/2012	39.49	23.98	15.51
	9/26/2012	39.49	32.43	7.06
	12/3/2012	39.49	27.72	11.77
	3/22/2013	39.49	31.47	8.02
	6/17/2013	39.49	29.70	9.79
	9/9/2013	39.49	32.31	7.18
	12/10/2013	39.49	31.78	7.71

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-40 (continued)	3/24/2014	39.49	28.12	11.37
	6/11/2014	39.49	22.85	16.64
	9/19/2014	39.49	33.23	6.26
	12/17/2014	39.49	30.11	9.38
	3/9/2015	34.86	30.09	9.49
	9/14/2015	39.49	32.97	6.52
	12/14/2015	39.49	26.29	13.20
	3/21/2016	39.49	26.89	12.60
	6/20/2016	39.49	30.80	8.69
	9/27/2016	39.49	33.17	6.32
	9/29/2016	39.49	32.90	6.59
	12/5/2016	39.49	29.72	9.77
	3/22/2017	39.49	20.08	19.41
	6/26/2017	39.49	26.00	13.49
	9/19/2017	39.49	31.91	7.58
	12/11/2017	39.49	31.00	8.49
	3/14/2018	39.49	29.79	9.70
	6/25/2018	39.49	29.41	10.08
	9/4/2018	39.49	33.23	6.26
	12/17/2018	41.61	31.86	9.75
	3/4/2019	41.61	31.60	10.01
	6/18/2019	41.61	29.96	11.65
	9/9/2019	41.61	33.46	8.15
	12/9/2019	41.61	32.79	8.82
	3/16/2020	41.61	31.57	10.04
	6/8/2020	41.61	26.13	15.48
	9/8/2020	41.61	32.70	8.91
	11/30/2020	41.61	31.64	9.97
	3/8/2021	41.61	29.98	11.63
	6/7/2021	41.61	29.18	12.43
	9/20/2021	41.61	33.06	8.55
	11/29/2021	41.61	31.18	10.43
	2/28/2022	41.61	30.48	11.13
	6/20/2022	41.61	22.26	19.35
MW-41	9/16/1998	36.57	29.19	7.38
	12/30/1998	36.57	21.95	14.62
	5/24/1999	36.57	23.66	12.91
	8/18/1999	36.57	26.83	9.74
	12/21/1999	36.57	22.90	13.67
	4/25/2000	36.57	22.88	13.69
	10/25/2000	36.57	29.48	7.09
	11/27/2000	36.57	28.99	7.58
	2/9/2001	36.57	28.80	7.77
	5/15/2001	36.57	29.30	7.27
	8/7/2001	36.57	29.92	6.65
	12/5/2001	36.57	26.94	9.63
	4/9/2002	36.57	27.72	8.85
	7/29/2002	36.57	27.69	8.88
	11/26/2002	36.57	29.38	7.19
	3/4/2003	36.57	27.69	8.88
	5/19/2003	36.57	25.27	11.30
	12/9/2003	36.57	27.58	8.99

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-41 (continued)	3/30/2004	36.57	27.34	9.23
	8/19/2004	36.57	28.79	7.78
	11/22/2004	36.57	29.24	7.33
	2/11/2005	36.57	27.84	8.73
	5/18/2005	36.57	25.92	10.65
	9/16/2005	36.57	29.85	6.72
	11/8/2005	36.57	28.10	8.47
	3/16/2006	36.57	26.27	10.30
	6/2/2006	36.57	22.15	14.42
	8/7/2006	36.57	28.61	7.96
	11/17/2006	36.57	26.23	10.34
	2/15/2007	36.57	27.92	8.65
	2/11/2008	36.57	23.85	12.72
	5/12/2008	36.57	25.63	10.94
	2/16/2009	36.57	28.06	8.51
	5/27/2009	36.57	23.79	12.78
	8/18/2009	36.57	29.55	7.02
	12/7/2009	36.57	28.60	7.97
	3/15/2010	36.57	28.10	8.47
	6/1/2010	36.57	26.05	10.52
	8/30/2010	36.57	29.21	7.36
	11/29/2010	36.57	27.99	8.58
	3/30/2011	36.57	23.77	12.80
	5/31/2011	36.57	17.60	18.97
	9/14/2011	36.57	24.20	12.37
	12/12/2011	36.57	28.33	8.24
	7/2/2012	36.57	21.01	15.56
	9/26/2012	36.57	29.24	7.33
	12/3/2012	36.57	24.80	11.77
	3/22/2013	36.57	28.41	8.16
	6/17/2013	36.57	26.60	9.97
	9/9/2013	36.57	29.30	7.27
	12/11/2013	36.57	28.65	7.92
	3/24/2014	36.57	29.04	7.53
	6/11/2014	36.57	24.75	11.82
	9/19/2014	36.57	30.01	6.56
	12/17/2014	NM	NM	—
	3/9/2015	34.86	21.70	9.49

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-41 (continued)	12/14/2015	36.57	23.43	13.14
	3/21/2016	36.57	23.81	12.76
	6/20/2016	36.57	27.95	8.62
	9/27/2016	36.57	29.82	6.75
	9/29/2016	36.57	29.56	7.01
	12/5/2016	36.57	26.68	9.89
	3/22/2017	36.57	17.54	19.03
	6/26/2017	36.57	22.85	13.72
	9/19/2017	36.57	24.23	12.34
	12/11/2017	36.57	27.88	8.69
	6/25/2018	36.57	26.35	10.22
	9/4/2018	36.57	29.99	6.58
	12/17/2018	38.71	29.03	9.68
	3/4/2019	38.71	28.44	10.27
	6/18/2019	38.71	24.25	14.46
	9/9/2019	38.71	24.23	14.48
	12/9/2019	38.71	NM	NM
	3/16/2020	38.71	28.36	10.35
	6/8/2020	38.71	23.24	15.47
	9/8/2020	38.71	29.64	9.07
	11/30/2020	38.71	28.62	10.09
	3/8/2021	38.71	26.95	11.76
	6/7/2021	38.71	26.29	12.42
	9/20/2021	38.71	30.02	8.69
	11/29/2021	38.71	28.33	10.38
	2/28/2022	38.71	27.25	11.46
	6/20/2022	38.71	19.37	19.34
MW-42	9/16/1998	38.49	31.17	7.32
	12/30/1998	38.49	23.54	14.95
	5/24/1999	38.49	25.66	12.83
	8/18/1999	38.49	28.84	9.65
	12/21/1999	38.49	24.80	13.69
	4/25/2000	38.49	24.75	13.74
	10/25/2000	38.49	31.69	6.80
	11/27/2000	38.49	30.95	7.54
	2/9/2001	38.49	30.80	7.69
	5/15/2001	38.49	31.25	7.24
	8/7/2001	38.49	31.87	6.62
	12/5/2001	38.49	28.16	10.33
	4/9/2002	38.49	29.70	8.79
	7/29/2002	38.49	29.08	9.41
	11/26/2002	38.49	31.35	7.14
	3/4/2003	38.49	29.71	8.78
	5/19/2003	38.49	27.19	11.30
	12/9/2003	38.49	29.44	9.05
	3/30/2004	38.49	29.41	9.08
	8/19/2004	38.49	30.73	7.76
	11/22/2004	38.49	31.21	7.28
	2/11/2005	38.49	29.76	8.73
	5/18/2005	38.49	27.81	10.68
	9/16/2005	38.49	31.90	6.59
	11/8/2005	38.49	29.98	8.51

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-42 (continued)	2/20/2006	38.49	28.64	9.85
	3/16/2006	38.49	28.22	10.27
	6/2/2006	38.49	24.08	14.41
	8/7/2006	38.49	30.62	7.87
	11/17/2006	38.49	28.13	10.36
	2/15/2007	38.49	29.95	8.54
	5/22/2007	38.49	27.19	11.30
	8/22/2007	38.49	31.33	7.16
	11/6/2007	38.49	32.45	6.04
	2/11/2008	38.49	25.81	12.68
	5/12/2008	38.49	27.50	10.99
	8/4/2008	38.49	29.76	8.73
	11/14/2008	38.49	29.45	9.04
	2/16/2009	38.49	29.98	8.51
	5/27/2009	38.49	25.40	13.09
	8/18/2009	38.49	31.41	7.08
	12/7/2009	38.49	30.36	8.13
	3/15/2010	38.49	29.95	8.54
	6/1/2010	38.49	28.01	10.48
	8/30/2010	38.49	31.20	7.29
	11/29/2010	38.49	29.88	8.61
	3/30/2011	38.49	25.70	12.79
	5/31/2011	38.49	19.24	19.25
	9/14/2011	38.49	30.43	8.06
	12/12/2011	38.49	30.40	8.09
	7/2/2012	38.49	22.95	15.54
	9/28/2012	38.49	31.28	7.21
	12/3/2012	38.49	26.67	11.82
	3/22/2013	38.49	30.39	8.10
	6/17/2013	38.49	28.61	9.88
	9/9/2013	38.49	31.28	7.21
	12/10/2013	38.49	30.73	7.76
	3/24/2014	38.49	26.98	11.51
	6/11/2014	38.49	26.78	11.71
	9/19/2014	38.49	32.15	6.34
	12/17/2014	38.49	29.05	9.44
	3/9/2015	34.86	29.05	9.49
	6/25/2015	38.49	31.55	6.94
	9/14/2015	38.49	31.87	6.62
	12/14/2015	38.49	25.22	13.27

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-42 (continued)	3/21/2016	38.49	25.73	12.76
	6/20/2016	38.49	29.72	8.77
	9/27/2016	38.49	32.10	6.39
	9/29/2016	38.49	31.90	6.59
	12/5/2016	38.49	28.60	9.89
	3/22/2017	38.49	18.31	20.18
	6/26/2017	38.49	24.92	13.57
	9/19/2017	38.49	30.89	7.60
	12/11/2017	38.49	29.85	8.64
	3/14/2018	38.49	28.68	9.81
	6/25/2018	38.49	28.35	10.14
	9/4/2018	38.49	32.10	6.39
	12/17/2018	40.63	30.88	9.75
	3/4/2019	40.63	30.49	10.14
	6/18/2019	40.63	28.90	11.73
	9/9/2019	40.63	32.25	8.38
	12/9/2019	40.63	31.81	8.82
	3/16/2020	40.63	30.39	10.24
	6/8/2020	40.63	25.09	15.54
	9/8/2020	40.63	31.69	8.94
	11/30/2020	40.63	30.55	10.08
	3/8/2021	40.63	28.94	11.69
	6/7/2021	40.63	28.18	12.45
	9/20/2021	40.63	32.00	8.63
	11/29/2021	40.63	30.19	10.44
	2/28/2022	40.63	29.32	11.31
	6/20/2022	40.63	21.19	19.44
	11/28/2022	40.63	30.60	10.03
MW-43	5/24/1999	40.34	27.65	12.69
	8/18/1999	40.34	30.85	9.49
	12/21/1999	40.34	26.77	13.57
	4/25/2000	40.34	26.68	13.66
	10/25/2000	40.34	33.43	6.91
	11/27/2000	40.34	32.88	7.46
	2/9/2001	40.34	32.81	7.53
	5/15/2001	40.34	33.22	7.12
	8/7/2001	40.34	33.83	6.51
	12/5/2001	40.34	30.03	10.31
	4/9/2002	40.34	31.73	8.61
	7/29/2002	40.34	31.74	8.60
	11/26/2002	40.34	33.25	7.09
	3/4/2003	40.34	31.77	8.57
	5/19/2003	40.34	29.14	11.20
	12/9/2003	40.34	31.30	9.04
	3/30/2004	40.34	31.49	8.85
	8/19/2004	40.34	32.66	7.68
	11/22/2004	40.34	33.22	7.12
	2/11/2005	40.34	31.67	8.67
	5/18/2005	40.34	29.70	10.64
	9/16/2005	40.34	33.80	6.54
	11/8/2005	40.34	31.93	8.41

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-43 (continued)	2/20/2006	40.34	30.74	9.60
	3/16/2006	40.34	30.21	10.13
	6/2/2006	40.34	26.11	14.23
	8/7/2006	40.34	32.63	7.71
	11/17/2006	40.34	30.07	10.27
	2/15/2007	40.34	31.94	8.40
	5/22/2007	40.34	28.95	11.39
	8/22/2007	40.34	33.39	6.95
	11/6/2007	40.34	34.47	5.87
	2/11/2008	40.34	29.89	10.45
	5/12/2008	40.34	29.51	10.83
	8/4/2008	40.34	31.71	8.63
	11/14/2008	40.34	31.20	9.14
	2/16/2009	40.34	31.91	8.43
	5/27/2009	40.34	27.22	13.12
	8/18/2009	40.34	33.41	6.93
	12/7/2009	40.34	32.33	8.01
	3/15/2010	40.34	31.90	8.44
	6/1/2010	40.34	29.88	10.46
	8/30/2010	40.34	33.16	7.18
	11/29/2010	40.34	31.99	8.35
	3/30/2011	40.34	27.76	12.58
	5/31/2011	40.34	21.13	19.21
	9/14/2011	40.34	32.38	7.96
	12/12/2011	40.34	32.29	8.05
	7/2/2012	40.34	24.93	15.41
	9/26/2012	40.34	33.46	6.88
	12/3/2012	40.34	28.59	11.75
	3/22/2013	40.34	32.43	7.91
	6/17/2013	40.34	30.81	9.53
	9/9/2013	40.34	33.19	7.15
	12/10/2013	40.34	33.15	7.19
	3/24/2014	40.34	29.16	11.18
	6/11/2014	40.34	28.83	11.51
	9/19/2014	40.34	34.50	5.84
	12/17/2014	40.34	30.96	9.38
	3/9/2015	34.86	31.10	9.49
	6/25/2015	40.34	33.55	6.79
	9/14/2015	40.34	33.95	6.39
	12/14/2015	40.34	7.30	33.04

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-43 (continued)	3/21/2016	40.34	27.91	12.43
	6/20/2016	40.34	31.76	8.58
	9/27/2016	40.34	34.20	6.14
	9/29/2016	40.34	33.85	6.49
	12/5/2016	40.34	30.66	9.68
	3/22/2017	40.34	20.94	19.40
	6/26/2017	40.34	26.97	13.37
	9/19/2017	40.34	32.72	7.62
	12/11/2017	40.34	31.92	8.42
	3/14/2018	40.34	30.75	9.59
	6/25/2018	40.34	30.45	9.89
	9/4/2018	40.34	34.28	6.06
	12/17/2018	42.41	32.57	9.84
	3/4/2019	42.41	32.65	9.76
	6/18/2019	42.41	31.09	11.32
	9/9/2019	42.41	34.47	7.94
	12/9/2019	42.41	33.34	9.07
	3/16/2020	42.41	32.46	9.95
	6/8/2020	42.41	27.01	15.4
	9/8/2020	42.41	33.81	8.6
	11/30/2020	42.41	32.58	9.83
	3/8/2021	42.41	30.96	11.45
	6/7/2021	42.41	30.14	12.27
	9/20/2021	42.41	34.07	8.34
	11/29/2021	42.41	32.19	10.22
	2/28/2022	42.41	31.37	11.04
	6/20/2022	42.41	23.23	19.18
	11/28/2022	42.41	32.65	9.76
	5/31/2023	42.41	28.76	13.65
MW-44	5/24/1999	34.78	22.70	12.08
	8/18/1999	34.78	25.21	9.57
	12/21/1999	34.78	21.22	13.56
	4/25/2000	34.78	21.09	13.69
	10/25/2000	34.78	27.90	6.88
	11/27/2000	34.78	27.40	7.38
	2/9/2001	34.78	27.05	7.73
	5/15/2001	34.78	27.56	7.22
	8/7/2001	34.78	28.02	6.76
	12/5/2001	34.78	24.07	10.71
	4/9/2002	34.78	26.16	8.62
	11/26/2002	34.78	27.87	6.91
	3/4/2003	34.78	29.00	5.78
	5/19/2003	34.78	23.91	10.87
	12/9/2003	34.78	26.27	8.51
	3/30/2004	34.78	25.88	8.90
	11/22/2004	34.78	27.61	7.17
	2/11/2005	34.78	26.04	8.74
	5/18/2005	34.78	24.40	10.38
	9/16/2005	34.78	27.91	6.87
	11/8/2005	34.78	26.82	7.96
	2/20/2006	34.78	24.68	10.10
	3/16/2006	34.78	24.72	10.06
	6/2/2006	34.78	20.49	14.29
	8/7/2006	34.78	27.05	7.73
	11/17/2006	34.78	24.50	10.28

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-44 (continued)	2/15/2007	34.78	26.29	8.49
	5/22/2007	34.78	24.81	9.97
	8/22/2007	34.78	27.57	7.21
	11/6/2007	34.78	28.26	6.52
	2/11/2008	34.78	24.60	10.18
	5/12/2008	34.78	24.15	10.63
	8/4/2008	34.78	26.09	8.69
	11/14/2008	34.78	26.11	8.67
	2/16/2009	34.78	27.70	7.08
	5/27/2009	34.78	25.49	9.29
	8/18/2009	34.78	27.15	7.63
	12/7/2009	34.78	26.98	7.80
	3/15/2010	34.78	26.31	8.47
	6/1/2010	34.78	24.68	10.10
	8/30/2010	34.78	27.44	7.34
	11/29/2010	34.78	26.58	8.20
	3/30/2011	34.78	22.09	12.69
	5/31/2011	34.78	15.73	19.05
	9/14/2011	34.78	24.20	10.58
	12/12/2011	34.78	26.41	8.37
	7/2/2012	34.78	19.50	15.28
	9/26/2012	34.78	26.63	8.15
	12/3/2012	34.78	24.62	10.16
	3/22/2013	34.78	26.89	7.89
	6/17/2013	34.78	25.47	9.31
	9/9/2013	34.78	27.58	7.20
	12/10/2013	34.78	27.51	7.27
	3/24/2014	34.78	24.40	10.38
	6/11/2014	34.78	23.22	11.56
	9/19/2014	34.78	26.30	8.48
	12/17/2014	34.78	25.46	9.32
	3/9/2015	34.86	24.80	9.49
	6/25/2015	34.78	27.48	7.30
	9/14/2015	34.78	28.41	6.37
	12/14/2015	34.78	24.85	9.93
	3/21/2016	34.78	22.40	12.38
	6/20/2016	34.78	26.04	8.74
	9/27/2016	34.78	30.23	4.55
	9/29/2016	34.78	28.23	6.55
	12/5/2016	34.78	25.08	9.70

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-44 (continued)	3/22/2017	34.78	15.56	19.22
	6/26/2017	34.78	19.82	14.96
	9/19/2017	34.78	26.61	8.17
	12/11/2017	34.78	27.2	7.58
	3/14/2018	34.78	25.24	9.54
	6/25/2018	34.78	24.91	9.87
	9/4/2018	34.78	28.60	6.18
	12/17/2018	36.90	27.06	9.84
	3/4/2019	36.90	26.58	10.32
	6/18/2019	36.90	23.72	13.18
	9/9/2019	36.90	28.29	8.61
	12/9/2019	36.90	27.92	8.98
	3/16/2020	36.90	26.76	10.14
	6/8/2020	36.90	21.89	15.01
	9/8/2020	36.90	27.97	8.93
	11/30/2020	36.90	26.98	9.92
	3/8/2021	36.90	25.47	11.43
	6/7/2021	36.90	24.62	12.28
	9/20/2021	36.90	28.27	8.63
	11/29/2021	36.90	26.51	10.39
	2/28/2022	36.90	25.98	10.92
	6/20/2022	36.90	17.61	19.29
MW-45	5/24/1999	36.89	24.02	12.87
	8/18/1999	36.89	27.18	9.71
	12/21/1999	36.89	23.27	13.62
	4/25/2000	36.89	23.20	13.69
	10/25/2000	36.89	29.98	6.91
	11/27/2000	36.89	29.34	7.55
	2/9/2001	36.89	29.16	7.73
	5/15/2001	36.89	29.65	7.24
	8/7/2001	36.89	30.22	6.67
	12/5/2001	36.89	26.65	10.24
	4/9/2002	36.89	28.07	8.82
	7/29/2002	36.89	28.40	8.49
	11/26/2002	36.89	29.77	7.12
	3/4/2003	36.89	28.06	8.83
	5/19/2003	36.89	25.62	11.27
	12/9/2003	36.89	27.83	9.06
	3/30/2004	36.89	27.71	9.18
	8/19/2004	36.89	29.14	7.75
	11/22/2004	36.89	29.61	7.28
	2/11/2005	36.89	28.14	8.75
	5/18/2005	36.89	26.24	10.65
	9/16/2005	36.89	30.30	6.59
	11/8/2005	36.89	29.45	7.44
	1/16/2006	36.89	20.65	16.24
	2/20/2006	36.89	27.91	8.98
	3/16/2006	36.89	26.63	10.26
	6/2/2006	36.89	23.56	13.33
	8/7/2006	36.89	29.63	7.26
	11/17/2006	36.89	26.81	10.08

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-45 (continued)	2/15/2007	36.89	28.27	8.62
	5/22/2007	36.89	25.96	10.93
	8/22/2007	36.89	30.21	6.68
	11/6/2007	36.89	31.00	5.89
	2/11/2008	36.89	26.04	10.85
	5/12/2008	36.89	25.96	10.93
	8/4/2008	36.89	28.79	8.10
	11/14/2008	36.89	28.12	8.77
	2/16/2009	36.89	28.41	8.48
	5/27/2009	36.89	24.19	12.70
	8/18/2009	36.89	29.91	6.98
	12/8/2009	36.89	28.93	7.96
	3/15/2010	36.89	28.44	8.45
	6/1/2010	36.89	26.91	9.98
	8/30/2010	36.89	30.03	6.86
	11/29/2010	36.89	28.50	8.39
	3/30/2011	36.89	24.16	12.73
	5/31/2011	36.89	17.90	18.99
	9/14/2011	36.89	28.68	8.21
	12/12/2011	36.89	28.83	8.06
	7/2/2012	36.89	21.34	15.55
	9/26/2012	36.89	29.40	7.49
	12/3/2012	36.89	25.25	11.64
MW-49	11/27/2000	35.52	28.30	7.22
	2/9/2001	35.52	27.83	7.69
	5/15/2001	35.52	28.37	7.15
	8/7/2001	35.52	28.92	6.60
	12/5/2001	35.52	25.26	10.26
	4/9/2002	35.52	26.80	8.72
	7/29/2002	35.52	26.81	8.71
	11/26/2002	35.52	28.49	7.03
	3/4/2003	35.52	26.79	8.73
	5/19/2003	35.52	24.32	11.20
	12/9/2003	35.52	26.53	8.99
	3/30/2004	35.52	26.63	8.89
	8/19/2004	35.52	27.86	7.66
	11/22/2004	35.52	28.67	6.85
	2/11/2005	35.52	26.95	8.57
	5/18/2005	35.52	25.02	10.50
	9/16/2005	35.52	29.08	6.44
	11/8/2005	35.52	27.14	8.38
	2/20/2006	35.52	25.74	9.78
	3/16/2006	35.52	25.40	10.12
	6/2/2006	35.52	21.34	14.18
	8/7/2006	35.52	27.76	7.76

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-49 (continued)	11/17/2006	35.52	25.37	10.15
	2/15/2007	35.52	27.14	8.38
	5/22/2007	35.52	24.43	11.09
	8/22/2007	35.52	28.43	7.09
	11/6/2007	35.52	29.50	6.02
	2/11/2008	35.52	25.11	10.41
	5/12/2008	35.52	24.80	10.72
	8/4/2008	35.52	26.96	8.56
	11/14/2008	35.52	26.66	8.86
	2/16/2009	35.52	27.38	8.14
	5/27/2009	35.52	22.59	12.93
	8/18/2009	35.52	28.58	6.94
	12/8/2009	35.52	27.55	7.97
	3/15/2010	35.52	28.15	7.37
	6/1/2010	35.52	25.14	10.38
	8/30/2010	35.52	28.43	7.09
	11/29/2010	35.52	27.17	8.35
	3/30/2011	35.52	23.08	12.44
	5/31/2011	35.52	17.63	17.89
	9/14/2011	35.52	27.64	7.88
	12/12/2011	35.52	27.64	7.88
	7/2/2012	35.52	20.30	15.22
	9/26/2012	35.52	28.35	7.17
	12/3/2012	35.52	24.09	11.43
	3/22/2013	35.52	27.65	7.87
	6/17/2013	35.52	25.93	9.59
	9/9/2013	35.52	28.52	7.00
	12/10/2013	35.52	28.05	7.47
	3/24/2014	35.52	24.41	11.11
	6/11/2014	35.52	24.14	11.38
	9/19/2014	35.52	29.11	6.41
	12/17/2014	35.52	26.47	9.05
	3/9/2015	34.86	26.10	9.49
	6/25/2015	35.52	28.67	6.85
	12/14/2015	35.52	22.68	12.84
	3/21/2016	35.52	23.01	12.51
	6/20/2016	35.52	26.84	8.68
	9/27/2016	35.52	29.10	6.42
	9/29/2016	35.52	29.04	6.48
	12/5/2016	35.52	25.70	9.82

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-49 (continued)	3/22/2017	35.52	16.18	19.34
	6/26/2017	35.52	22.03	13.49
	9/19/2017	35.52	27.93	7.59
	12/11/2017	35.52	27.09	8.43
	3/14/2018	35.52	25.8	9.72
	6/25/2018	35.52	25.45	10.07
	9/4/2018	35.52	29.00	6.52
	12/17/2018	37.64	28.17	9.47
	3/4/2019	37.64	27.62	10.02
	6/18/2019	37.64	25.99	11.65
	9/9/2019	37.64	29.30	8.34
	12/9/2019	37.64	28.79	8.85
	3/16/2020	37.64	27.68	9.96
	6/8/2020	37.64	22.15	15.49
	9/8/2020	37.64	28.69	8.95
	11/30/2020	37.64	27.53	10.11
	3/8/2021	37.64	26.08	11.56
	6/7/2021	37.64	25.30	12.34
	9/20/2021	37.64	28.82	8.82
	11/29/2021	37.64	27.24	10.4
	2/28/2022	37.64	26.53	11.11
	6/20/2022	37.64	18.33	19.31
MW-50	11/27/2000	40.05	32.67	7.38
	2/9/2001	40.05	32.68	7.37
	5/15/2001	40.05	33.08	6.97
	8/7/2001	40.05	33.99	6.06
	12/5/2001	40.05	29.84	10.21
	4/9/2002	40.05	28.42	11.63
	7/29/2002	40.05	31.97	8.08
	11/26/2002	40.05	33.07	6.98
	3/4/2003	40.05	31.61	8.44
	5/19/2003	40.05	29.02	11.03
	12/9/2003	40.05	31.13	8.92
	3/30/2004	40.05	31.35	8.70
	8/19/2004	40.05	32.47	7.58
	11/22/2004	40.05	33.00	7.05
	2/11/2005	40.05	31.50	8.55
	5/18/2005	40.05	29.49	10.56
	9/16/2005	40.05	33.72	6.33
	11/8/2005	40.05	31.77	8.28
	2/20/2006	40.05	30.63	9.42
	3/16/2006	40.05	30.11	9.94
	6/2/2006	40.05	25.96	14.09
	8/7/2006	40.05	32.45	7.60
	11/17/2006	40.05	29.92	10.13
	2/15/2007	40.05	31.79	8.26
	5/22/2007	40.05	29.11	10.94
	8/22/2007	40.05	33.22	6.83
	11/6/2007	40.05	34.30	5.75
	2/11/2008	40.05	29.80	10.25
	5/12/2008	40.05	29.35	10.70
	8/4/2008	40.05	31.42	8.63
	11/14/2008	40.05	31.15	8.90

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-50 (continued)	2/16/2009	40.05	31.82	8.23
	5/27/2009	40.05	27.22	12.83
	8/18/2009	40.05	33.14	6.91
	12/7/2009	40.05	32.18	7.87
	3/15/2010	40.05	31.79	8.26
	6/1/2010	40.05	29.74	10.31
	8/30/2010	40.05	33.03	7.02
	11/29/2010	40.05	31.89	8.16
	3/30/2011	40.05	27.70	12.35
	5/31/2011	40.05	20.86	19.19
	9/14/2011	40.05	32.26	7.79
	12/12/2011	40.05	32.17	7.88
	7/2/2012	40.05	24.72	15.33
	9/26/2012	40.05	33.32	6.73
	12/3/2012	40.05	28.55	11.50
	3/22/2013	40.05	32.30	7.75
	6/17/2013	40.05	30.59	9.46
	9/9/2013	40.05	33.03	7.02
	12/10/2013	40.05	32.89	7.16
	3/24/2014	40.05	29.02	11.03
	6/11/2014	40.05	28.70	11.03
	9/19/2014	40.05	34.35	11.35
	12/17/2014	40.05	30.82	9.23
	3/9/2015	34.86	30.90	9.49
	6/25/2015	40.05	33.40	6.65
	9/14/2015	40.05	33.74	6.31
	12/14/2015	40.05	27.05	13.00
	3/21/2016	40.05	27.80	12.25
	6/20/2016	40.05	31.60	8.45
	9/27/2016	40.05	34.04	6.01
	9/29/2016	40.05	33.68	6.37
	12/5/2016	40.05	30.53	9.52
	3/22/2017	40.05	20.72	19.33
	6/26/2017	40.05	22.89	17.16
	9/19/2017	40.05	32.83	7.22
	12/11/2017	40.05	31.76	8.29
	3/14/2018	40.05	30.61	9.44
	6/25/2018	40.05	30.32	9.73
	9/4/2018	40.05	34.13	5.92
	12/17/2018	42.08	32.39	9.69
	3/4/2019	42.08	32.52	9.56
	6/18/2019	42.08	30.94	11.14
	9/9/2019	42.08	34.23	7.85
	12/9/2019	42.08	33.16	8.92
	3/16/2020	42.08	32.22	9.86
	6/8/2020	42.08	26.75	15.33
	9/8/2020	42.08	33.46	8.62
	11/30/2020	42.08	32.39	9.69
	3/8/2021	42.08	30.79	11.29
	6/7/2021	42.08	29.88	12.20
	9/20/2021	42.08	33.84	8.24
	11/29/2021	42.08	31.88	10.20
	2/28/2022	42.08	31.12	10.96
	6/20/2022	42.08	22.91	19.17
	11/28/2022	42.08	32.40	9.68

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-51	11/27/2000	34.01	26.61	7.40
	2/9/2001	34.01	26.55	7.46
	5/15/2001	34.01	27.00	7.01
	8/7/2001	34.01	27.64	6.37
	12/5/2001	34.01	23.64	10.37
	4/9/2002	34.01	25.63	8.38
	7/29/2002	34.01	25.75	8.26
	11/26/2002	34.01	27.02	6.99
	3/4/2003	34.01	25.61	8.40
	5/19/2003	34.01	23.01	11.00
	12/9/2003	34.01	25.00	9.01
	3/30/2004	34.01	25.31	8.70
	8/19/2004	34.01	26.46	7.55
	11/22/2004	34.01	27.11	6.90
	2/11/2005	34.01	25.57	8.44
	5/18/2005	34.01	23.58	10.43
	9/16/2005	34.01	27.75	6.26
	11/8/2005	34.01	25.62	8.39
	2/20/2006	34.01	24.77	9.24
	3/16/2006	34.01	24.11	9.90
	6/2/2006	34.01	20.17	13.84
	8/7/2006	34.01	26.62	7.39
	11/17/2006	34.01	23.91	10.10
	2/15/2007	34.01	25.96	8.05
	8/22/2007	34.01	27.25	6.76
	11/6/2007	34.01	28.20	5.81
	2/11/2008	34.01	23.94	10.07
	5/12/2008	34.01	23.50	10.51
	8/4/2008	34.01	25.69	8.32
	11/14/2008	34.01	24.96	9.05
	2/16/2009	34.01	25.99	8.02
	5/27/2009	34.01	21.00	13.01
	8/18/2009	34.01	27.30	6.71
	12/7/2009	34.01	26.12	7.89
	3/15/2010	34.01	25.84	8.17
	6/1/2010	34.01	23.80	10.21
	8/30/2010	34.01	27.16	6.85
	11/29/2010	34.01	25.93	8.08

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-51 (continued)	3/30/2011	34.01	21.95	12.06
	5/31/2011	34.01	14.87	19.14
	9/14/2011	34.01	26.42	7.59
	12/12/2011	34.01	26.33	7.68
	7/2/2012	34.01	18.98	15.03
	9/26/2012	34.01	27.38	6.63
	12/3/2012	34.01	22.60	11.41
	3/22/2013	34.01	26.41	7.60
	6/17/2013	34.01	24.81	9.20
	9/9/2013	34.01	27.16	6.85
	12/10/2013	34.01	26.85	7.16
	3/24/2014	34.01	23.25	10.76
	6/11/2014	34.01	22.91	11.10
	9/19/2014	34.01	28.00	6.01
	12/17/2014	34.01	24.77	9.24
	3/9/2015	34.86	24.90	9.49
	6/25/2015	34.01	27.32	6.69
	9/14/2015	34.01	27.59	6.42
	12/14/2015	34.01	21.00	13.01
	3/21/2016	34.01	21.84	12.17
	6/20/2016	34.01	25.54	8.47
	9/27/2016	34.01	27.55	6.46
	9/29/2016	34.01	27.61	6.40
	12/5/2016	34.01	24.39	9.62
	3/22/2017	34.01	14.65	19.36
	6/26/2017	34.01	20.95	13.06
	9/19/2017	34.01	26.65	7.36
	12/11/2017	34.01	25.75	8.26
	3/14/2018	34.01	24.59	9.42
	6/25/2018	34.01	24.35	9.66
	9/4/2018	34.01	27.89	6.12
	12/17/2018	36.03	26.45	9.58
	3/4/2019	36.03	26.38	9.65
	6/18/2019	36.03	24.92	11.11
	9/9/2019	36.03	27.97	8.06
	12/9/2019	36.03	27.25	8.78
	3/16/2020	36.03	26.3	9.73
	6/8/2020	36.03	20.63	15.4
	9/8/2020	36.03	27.48	8.55
	11/30/2020	36.03	26.28	9.75
	3/8/2021	36.03	24.71	11.32
	6/7/2021	36.03	23.85	12.18
	9/20/2021	36.03	27.69	8.34
	11/29/2021	36.03	25.73	10.30
	2/28/2022	36.03	25.14	10.89
	6/20/2022	36.03	16.85	19.18
	11/28/2022	36.03	26.48	9.55
	5/31/2023	36.03	22.62	13.41
MW-52	11/27/2000	34.41	27.61	6.80
	2/9/2001	34.41	27.21	7.20
	5/15/2001	34.41	27.40	7.01
	8/7/2001	34.41	28.62	5.79
	12/5/2001	34.41	25.49	8.92
	4/9/2002	34.41	26.20	8.21

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-52 (continued)	7/29/2002	34.41	25.96	8.45
	11/26/2002	34.41	27.62	6.79
	3/4/2003	34.41	26.85	7.56
	5/19/2003	34.41	24.09	10.32
	12/9/2003	34.41	25.60	8.81
	3/30/2004	34.41	25.80	8.61
	8/19/2004	34.41	26.53	7.88
	11/22/2004	34.41	27.73	6.68
	2/11/2005	34.41	27.03	7.38
	5/18/2005	34.41	24.14	10.27
	9/16/2005	34.41	28.44	5.97
	2/20/2006	34.41	25.31	9.10
	3/16/2006	34.41	24.60	9.81
	6/2/2006	34.41	20.84	13.57
	8/7/2006	34.41	27.16	7.25
	2/15/2007	34.41	26.53	7.88
	5/22/2007	34.41	23.74	10.67
	8/22/2007	34.41	27.74	6.67
	11/6/2007	34.41	28.75	5.66
	2/11/2008	34.41	24.62	9.79
	5/12/2008	34.41	24.19	10.22
	8/4/2008	34.41	26.31	8.10
	11/14/2008	34.41	25.81	8.60
	2/16/2009	34.41	32.10	2.31
	5/27/2009	34.41	29.19	5.22
	8/18/2009	34.41	27.94	6.47
	12/7/2009	34.41	26.74	7.67
	3/15/2010	34.41	26.49	7.92
	6/1/2010	34.41	24.39	10.02
	8/30/2010	34.41	27.70	6.71
	11/29/2010	34.41	26.50	7.91
	3/30/2011	34.41	22.65	11.76
	5/31/2011	34.41	15.62	18.79
	9/14/2011	34.41	27.12	7.29
	12/12/2011	34.41	27.04	7.37
	7/2/2012	34.41	19.69	14.72
	9/26/2012	34.41	27.75	6.66
	12/3/2012	34.41	23.35	11.06
	3/22/2013	34.41	27.09	7.32
	6/17/2013	34.41	25.48	8.93
	9/9/2013	34.41	27.76	6.65
	12/10/2013	34.41	27.23	7.18

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-52 (continued)	3/24/2014	34.41	23.87	10.54
	6/11/2014	34.41	23.57	10.84
	9/19/2014	34.41	28.28	6.13
	12/17/2014	34.41	25.50	8.91
	3/9/2015	34.86	25.30	9.49
	6/25/2015	34.41	27.72	6.69
	9/14/2015	34.41	27.78	6.63
	12/14/2015	34.41	22.56	11.85
	3/21/2016	34.41	22.37	12.04
	6/20/2016	34.41	26.00	8.41
	9/27/2016	34.41	28.23	6.18
	9/29/2016	34.41	28.10	6.31
	12/5/2016	34.41	24.85	9.56
	3/22/2017	34.41	15.14	19.27
	6/26/2017	34.41	19.98	14.43
	9/19/2017	34.41	27.09	7.32
	12/11/2017	34.41	26.22	8.19
	3/14/2018	34.41	25.00	9.41
	6/25/2018	34.41	24.30	10.11
	9/4/2018	34.41	27.53	6.88
	12/17/2018	36.53	27.20	9.33
	3/4/2019	36.53	26.40	10.13
	6/18/2019	36.53	25.37	11.16
	9/9/2019	36.53	28.28	8.25
	12/9/2019	36.36	27.39	8.97
	3/16/2020	36.36	26.33	10.03
	6/8/2020	36.36	21.00	15.36
	9/8/2020	36.36	26.35	10.01
	11/30/2020	36.36	26.64	9.72
	3/8/2021	36.36	25.10	11.26
	6/7/2021	36.36	24.17	12.19
	9/20/2021	36.36	27.62	8.74
	11/29/2021	36.36	26.19	10.17
	2/28/2022	36.36	24.62	11.74
	6/20/2022	36.36	17.76	18.6
	11/28/2022	36.36	26.64	9.72
	5/31/2023	36.36	22.82	13.54
MW-53	11/27/2000	34.28	26.50	7.78
	2/9/2001	34.28	25.11	9.17
	5/15/2001	34.28	25.14	9.14
	8/7/2001	34.28	26.90	7.38
	12/5/2001	34.28	25.15	9.13
	4/9/2002	34.28	23.50	10.78
	7/29/2002	34.28	24.30	9.98
	11/26/2002	34.28	27.83	6.45
	3/4/2003	34.28	25.07	9.21
	5/19/2003	34.28	23.25	11.03
	12/9/2003	34.28	24.58	9.70
	3/30/2004	34.28	23.30	10.98
	8/19/2004	34.28	25.26	9.02
	11/22/2004	34.28	25.58	8.70
	2/11/2005	34.28	27.31	6.97
	5/18/2005	34.28	23.73	10.55
	9/16/2005	34.28	26.33	7.95
	11/8/2005	34.28	25.07	9.21

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-53 (continued)	3/16/2006	34.28	22.78	11.50
	6/2/2006	34.28	18.74	15.54
	8/7/2006	34.28	24.67	9.61
	11/17/2006	34.28	26.96	7.32
	2/15/2007	34.28	23.11	11.17
	5/22/2007	34.28	21.39	12.89
	8/22/2007	34.28	24.90	9.38
	11/6/2007	34.28	25.76	8.52
	2/11/2008	34.28	21.86	12.42
	5/12/2008	34.28	21.80	12.48
	8/4/2008	34.28	23.53	10.75
	11/14/2008	34.28	24.51	9.77
	2/16/2009	34.28	27.41	6.87
	5/27/2009	34.28	20.70	13.58
	8/18/2009	34.28	22.80	11.48
	12/7/2009	34.28	24.29	9.99
	3/15/2010	34.28	23.93	10.35
	6/1/2010	34.28	23.15	11.13
	8/30/2010	34.28	23.69	10.59
	11/29/2010	34.28	23.29	10.99
	3/30/2011	34.28	21.48	12.80
	5/31/2011	34.28	16.98	17.30
	9/14/2011	34.28	19.62	14.66
	12/12/2011	34.28	23.98	10.30
	7/2/2012	34.28	19.33	14.95
	9/26/2012	34.28	21.28	13.00
	12/3/2012	34.28	20.90	13.38
	3/22/2013	34.28	22.71	11.57
	6/17/2013	34.28	21.90	12.38
	9/9/2013	34.28	23.32	10.96
	12/10/2013	34.28	24.06	10.22
	3/24/2014	34.28	21.74	12.54
	6/11/2014	34.28	20.74	13.54
	9/19/2014	34.28	23.02	11.26
	12/17/2014	34.28	22.97	11.31
	3/9/2015	34.86	27.25	9.49
	6/25/2015	34.28	22.95	11.33
	9/14/2015	34.28	24.10	10.18
	12/14/2015	34.28	21.85	12.43

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-53 (continued)	3/21/2016	34.28	20.85	13.43
	6/20/2016	34.28	22.14	12.14
	9/27/2016	34.28	24.22	10.06
	9/29/2016	34.28	25.05	9.23
	12/5/2016	34.28	23.58	10.70
	3/22/2017	34.28	16.67	17.61
	6/26/2017	34.28	16.74	17.54
	9/19/2017	34.28	28.40	5.88
	12/11/2017	34.28	21.54	12.74
	3/14/2018	34.28	23.25	11.03
	6/25/2018	34.28	21.08	13.2
	9/4/2018	34.28	23.45	10.83
	12/17/2018	36.40	24.89	11.51
	3/4/2019	36.40	25.06	11.34
	6/18/2019	36.40	23.19	13.21
	9/9/2019	36.40	24.48	11.92
	12/9/2019	36.40	25.59	10.81
	3/16/2020	36.40	23.42	12.98
	6/9/2020	36.40	19.62	16.78
	9/8/2020	36.40	22.71	13.69
	11/30/2020	36.40	24.37	12.03
	3/8/2021	36.40	23.56	12.84
	6/7/2021	36.40	23.60	12.80
	9/20/2021	36.40	26.16	10.24
	11/29/2021	36.40	24.50	11.90
	2/28/2022	36.42	NM	NS
	6/20/2022	36.42	16.65	19.77
WEX-60	12/5/2001	35.18	24.77	10.41
	4/9/2002	35.18	26.18	9.00
	7/29/2002	35.18	26.00	9.18
	11/26/2002	35.18	27.81	7.37
	3/4/2003	35.18	26.50	8.68
	5/19/2003	35.18	23.54	11.64
	12/9/2003	35.18	25.92	9.26
	3/30/2004	35.18	25.98	9.20
	11/22/2004	35.18	35.78	-0.60
	2/11/2005	35.18	37.38	-2.20
	5/18/2005	35.18	35.64	-0.46
	9/16/2005	35.18	39.08	-3.90
	11/8/2005	35.18	31.11	4.07
	1/16/2006	35.18	23.25	11.93
	2/20/2006	35.18	34.56	0.62
	3/16/2006	35.18	25.11	10.07
	6/2/2006	35.18	34.30	0.88
	8/7/2006	35.18	38.98	-3.80
	11/17/2006	35.18	32.36	2.82
	2/15/2007	35.18	34.67	0.51
	5/22/2007	35.18	33.18	2.00
	8/22/2007	35.18	33.74	1.44
	11/6/2007	35.18	35.12	0.06
	2/11/2008	35.18	33.64	1.54
	5/12/2008	35.18	33.87	1.31
	8/4/2008	35.18	35.17	0.01
	11/14/2008	35.18	34.01	1.17

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
WEX-60 (continued)	3/15/2010	35.18	32.26	2.92
	6/1/2010	35.18	30.29	4.89
	8/30/2010	35.18	34.50	0.68
	11/29/2010	35.18	33.37	1.81
	3/30/2011	35.18	33.80	1.38
	5/31/2011	35.18	33.00	2.18
	9/14/2011	35.18	39.14	-3.96
	12/12/2011	35.18	38.75	-3.57
	7/2/2012	35.18	39.39	-4.21
	9/26/2012	35.18	38.84	-3.66
	12/3/2012	35.18	39.30	-4.12
	3/22/2013	35.18	40.01	-4.83
	6/17/2013	35.18	40.22	-5.04
	12/12/2013	35.18	39.29	-4.11
	9/9/2013	35.18	39.20	-4.02
	3/24/2014	35.18	39.29	-4.11
	6/11/2014	35.18	NM	NM
	12/17/2014	35.18	NM	NM
	12/23/2015	34.80	17.61	17.19
	3/21/2016	34.80	22.41	12.39
	6/20/2016	34.80	NM	NM
	9/27/2016	34.80	NM	NM
	9/29/2016	34.80	NM	NM
	12/5/2016	34.80	21.19	13.61
	3/22/2017	34.80	15.48	19.32
	6/26/2017	34.80	24.39	13.41
	9/19/2017	34.80	NM	NM
	12/11/2017	34.80	NM	NM
	3/14/2018	34.80	NM	NM
	6/25/2018	34.80	NM	NM
	9/4/2018	34.80	NM	NM
	12/17/2018	36.91	NM	NM
	3/4/2019	36.91	NM	NM
	6/18/2019	36.91	NM	NM
	9/9/2019	36.91	NM	NM
	12/9/2019	36.91	NM	NM
	3/16/2020	36.91	NM	NM
	6/8/2020	36.91	NM	NM
	9/8/2020	36.91	NM	NM
	11/30/2020	37.91	NM	NM
	3/8/2021	36.91	NM	NM
	6/7/2021	36.91	NM	NM
	9/20/2021	36.91	NM	NM
	11/29/2021	36.91	NM	NM
	2/28/2022	36.91	NM	NM
	6/20/2022	36.91	NM	NM
MW-62	12/5/2001	35.39	24.86	10.53
	4/9/2002	35.39	26.24	9.15
	7/29/2002	35.39	25.97	9.42
	11/26/2002	35.39	27.82	7.57
	3/4/2003	35.39	26.08	9.31
	5/19/2003	35.39	23.73	11.66

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-62 (continued)	12/9/2003	35.39	26.08	9.31
	3/30/2004	35.39	26.01	9.38
	11/22/2004	35.39	29.96	5.43
	2/11/2005	35.39	29.14	6.25
	5/18/2005	35.39	27.19	8.20
	9/16/2005	35.39	30.80	4.59
	11/8/2005	35.39	28.09	7.30
	1/16/2006	35.39	20.42	14.97
	3/16/2006	35.39	25.59	9.80
	6/2/2006	35.39	23.46	11.93
	8/7/2006	35.39	29.74	5.65
	11/17/2006	35.39	26.75	8.64
	2/15/2007	35.39	28.25	7.14
	5/22/2007	35.39	25.85	9.54
	8/22/2007	35.39	29.30	6.09
	11/6/2007	35.39	30.55	4.84
	2/11/2008	35.39	24.54	10.85
	5/12/2008	35.39	26.25	9.14
	8/4/2008	35.39	28.14	7.25
	11/14/2008	35.39	28.18	7.21
	3/15/2010	35.39	28.06	7.33
	6/1/2010	35.39	25.92	9.47
	8/30/2010	35.39	29.03	6.36
	11/29/2010	35.39	27.79	7.60
	3/30/2011	35.39	24.06	11.33
	5/31/2011	35.39	17.80	17.59
	9/14/2011	35.39	28.66	6.73
	12/12/2011	35.39	28.63	6.76
	7/2/2012	35.39	21.60	13.79
	9/26/2012	35.39	28.82	6.57
	12/3/2012	35.39	25.40	9.99
	3/22/2013	35.39	28.32	7.07
	6/17/2013	35.39	26.60	8.79
	9/9/2013	35.39	29.10	6.29
	12/12/2013	35.39	28.78	6.61
	3/24/2014	35.39	28.78	6.61
	6/11/2014	35.39	NM	NM
	12/17/2014	35.39	NM	NM
	6/25/2015	35.39	NM	NM
	12/23/2015	35.05	22.20	12.85
	3/21/2016	35.05	22.63	12.42
	6/20/2016	35.05	26.29	8.76
	9/27/2016	35.05	28.62	6.43
	9/29/2016	35.05	28.54	6.51
	12/5/2016	35.05	24.85	10.20

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-62 (continued)	3/22/2017	35.05	15.81	19.24
	6/26/2017	35.05	21.58	13.47
	9/19/2017	35.05	27.65	7.40
	12/11/2017	35.05	26.40	8.65
	3/14/2018	35.05	25.31	9.74
	6/25/2018	35.05	24.99	10.06
	9/4/2018	35.05	28.13	6.92
	12/17/2018	37.16	27.90	9.26
	3/4/2019	37.16	26.96	10.20
	6/18/2019	37.16	25.47	11.69
	9/9/2019	37.16	28.49	8.67
	12/9/2019	37.16	28.22	8.94
	3/16/2020	37.16	26.77	10.39
	6/8/2020	37.16	21.74	15.42
	9/8/2020	37.16	27.87	9.29
	11/30/2020	37.16	27.04	10.12
	3/8/2021	37.16	25.60	11.56
	6/7/2021	37.16	25.19	11.97
	9/20/2021	37.16	28.32	8.84
	11/29/2021	37.16	26.82	10.34
	2/28/2022	37.16	26.05	11.11
	6/20/2022	37.16	17.85	19.31
MW-70	11/22/2004	35.56	28.00	7.56
	2/11/2005	35.56	26.84	8.72
	5/18/2005	35.56	24.94	10.62
	9/16/2005	35.56	28.92	6.64
	1/16/2006	35.56	19.35	16.21
	2/20/2006	35.56	25.01	10.55
	3/16/2006	35.56	25.31	10.25
	6/2/2006	35.56	20.70	14.86
	8/7/2006	35.56	27.49	8.07
	11/17/2006	35.56	25.07	10.49
	2/15/2007	35.56	26.98	8.58
	5/22/2007	35.56	24.24	11.32
	8/22/2007	35.56	28.33	7.23
	11/6/2007	35.56	29.48	6.08
	2/11/2008	35.56	23.71	11.85
	5/12/2008	35.56	24.67	10.89
	8/4/2008	35.56	26.27	9.29
	11/14/2008	35.56	26.50	9.06
	2/16/2009	35.56	27.15	8.41
	5/27/2009	35.56	24.03	11.53
	8/18/2009	35.56	29.52	6.04
	12/8/2009	35.56	28.55	7.01
	3/15/2010	35.56	27.05	8.51
	6/1/2010	35.56	24.69	10.87
	8/30/2010	35.56	27.39	8.17
	11/29/2010	35.56	28.28	7.28
	3/30/2011	35.56	22.84	12.72
	5/31/2011	35.56	16.65	18.91
	9/14/2011	35.56	27.35	8.21
	12/12/2011	35.56	27.02	8.54

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-70 (continued)	7/2/2012	35.56	20.06	15.50
	9/26/2012	35.56	28.36	7.20
	12/3/2012	35.56	24.42	11.14
	3/22/2013	35.56	26.61	8.95
	6/17/2013	35.56	25.45	10.11
	9/9/2013	35.56	27.17	8.39
	12/10/2013	35.56	27.80	7.76
	3/24/2014	35.56	24.09	11.47
	6/11/2014	35.56	23.68	11.88
	9/19/2014	35.56	28.98	6.58
	12/17/2014	35.56	26.38	9.18
	3/9/2015	34.86	26.10	9.49
	6/25/2015	35.56	28.48	7.08
	9/14/2015	35.56	28.65	6.91
	12/14/2015	35.56	22.65	12.91
	3/21/2016	35.56	22.83	12.73
	6/20/2016	35.56	26.72	8.84
	9/27/2016	35.56	29.05	6.51
	9/29/2016	35.56	28.85	6.71
	12/5/2016	35.56	25.69	9.87
	3/22/2017	35.56	16.34	19.22
	6/26/2017	35.56	21.81	13.75
	9/19/2017	35.56	27.81	7.75
	12/11/2017	35.56	27.02	8.54
	3/14/2018	35.56	25.67	9.89
	6/25/2018	35.56	25.3	10.26
	9/4/2018	35.56	28.80	6.76
	12/17/2018	37.66	28.16	9.50
	3/4/2019	37.66	27.54	10.12
	6/18/2019	37.66	25.89	11.77
	9/9/2019	37.66	29.19	8.47
	12/9/2019	37.66	28.68	8.98
	3/16/2020	37.66	27.51	10.15
	6/8/2020	37.66	22.29	15.37
	9/8/2020	37.66	28.54	9.12
	11/30/2020	37.66	27.62	10.04
	3/8/2021	37.66	25.98	11.68
	6/7/2021	37.66	25.28	12.38
	9/20/2021	37.66	28.82	8.84
	11/29/2021	37.66	27.22	10.44
	2/28/2022	37.66	26.38	11.28
	6/20/2022	37.66	18.39	19.27
	11/28/2022	37.66	27.71	9.95
	5/31/2023	37.66	23.48	14.18
MW-71	11/22/2004	36.36	26.50	9.86
	2/11/2005	36.36	27.67	8.69
	5/18/2005	36.36	25.72	10.64
	9/16/2005	36.36	29.91	6.45
	11/8/2005	36.36	27.94	8.42
	1/16/2006	36.36	20.19	16.17
	2/20/2006	36.36	26.85	9.51
	3/16/2006	36.36	26.25	10.11
	6/2/2006	36.36	22.12	14.24
	8/7/2006	36.36	28.68	7.68
	11/17/2006	36.36	26.14	10.22

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-71 (continued)	2/15/2007	36.36	27.91	8.45
	5/22/2007	36.36	25.18	11.18
	8/22/2007	36.36	29.30	7.06
	11/6/2007	36.36	32.43	3.93
	2/11/2008	36.36	23.90	12.46
	5/12/2008	36.36	25.52	10.84
	8/4/2008	36.36	27.73	8.63
	11/14/2008	36.36	27.34	9.02
	2/16/2009	36.36	27.89	8.47
	5/27/2009	36.36	23.35	13.01
	8/18/2009	36.36	29.45	6.91
	12/7/2009	36.36	28.36	8.00
	3/15/2010	36.36	27.96	8.40
	6/1/2010	36.36	25.90	10.46
	8/30/2010	36.36	29.28	7.08
	11/29/2010	36.36	27.93	8.43
	3/30/2011	36.36	23.80	12.56
	5/31/2011	36.36	17.28	19.08
	9/14/2011	36.36	28.36	8.00
	12/12/2011	36.36	28.32	8.04
	7/2/2012	36.36	20.92	15.44
	9/26/2012	36.36	29.19	7.17
	12/3/2012	36.36	24.72	11.64
	3/22/2013	36.36	28.40	7.96
	6/17/2013	36.36	26.63	9.73
	9/9/2013	36.36	29.21	7.15
	12/10/2013	36.36	28.70	7.66
	3/24/2014	36.36	25.09	11.27
	6/11/2014	36.36	24.77	11.59
	9/19/2014	36.36	NM	–
	12/17/2014	36.36	NM	–
	3/9/2015	34.86	26.50	9.49
	6/25/2015	36.36	NM	–
	9/14/2015	36.36	29.61	6.75
	12/14/2015	36.36	23.28	13.08
	3/21/2016	36.36	23.79	12.57
	6/20/2016	36.36	27.67	8.69
	9/27/2016	36.36	30.02	6.34
	9/29/2016	36.36	29.34	7.02
	12/5/2016	36.36	26.61	9.75

Please refer to notes at end of table.

Table D-1**Historical Groundwater Elevations—Area 1**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-71 (continued)	3/22/2017	36.36	17.02	19.34
	6/26/2017	36.36	22.83	13.53
	9/19/2017	36.36	28.72	7.64
	12/11/2017	36.36	27.94	8.42
	3/14/2018	36.36	26.60	9.76
	6/25/2018	36.36	26.25	10.11
	9/4/2018	36.36	29.94	6.42
	12/17/2018	38.47	29.00	9.47
	3/4/2019	38.47	28.64	9.83
	6/18/2019	38.47	26.81	11.66
	9/9/2019	38.47	30.24	8.23
	12/9/2019	38.47	29.51	8.96
	3/16/2020	38.47	28.49	9.98
	6/8/2020	38.47	23.03	15.44
	9/8/2020	38.47	29.53	8.94
	11/30/2020	38.47	28.41	10.06
	3/8/2021	38.47	26.92	11.55
	6/7/2021	38.47	26.09	12.38
	9/20/2021	38.47	29.73	8.74
	11/29/2021	38.47	28.11	10.36
	2/28/2022	38.47	27.48	10.99
	6/20/2022	38.47	19.17	19.30
MW-90	7/2/2019	36.57	25.89	10.68
	9/9/2019	36.57	27.28	9.29
	12/9/2019	36.57	27.08	9.49
	3/16/2020	36.57	25.47	11.10
	6/8/2020	36.57	21.42	15.15
	9/8/2020	36.57	26.77	9.80
	11/30/2020	36.57	25.92	10.65
	3/8/2021	36.57	NM	NM
	6/7/2021	36.57	24.27	12.30
	9/20/2021	36.57	27.23	9.34
	11/29/2021	36.57	25.60	10.97
	2/28/2022	36.57	24.63	11.94
	6/20/2022	36.57	17.75	18.82
MW-91	7/2/2019	36.27	25.99	10.28
	9/9/2019	36.27	28.19	8.08
	12/9/2019	36.27	27.47	8.80
	3/16/2020	36.27	26.27	10.00
	6/8/2020	36.27	20.86	15.41
	9/8/2020	36.27	27.62	8.65
	11/30/2020	36.27	26.41	9.86
	3/8/2021	36.27	25.32	10.95
	6/7/2021	36.27	23.89	12.38
	9/20/2021	36.27	27.68	8.59
	11/29/2021	36.27	26.11	10.16
	2/28/2022	36.27	NM	NM
	6/20/2022	36.27	17.43	18.84

Please refer to notes at end of table.

Table D-1

Historical Groundwater Elevations—Area 1

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-103	1/29/2021	39.53	27.90	11.63
	3/8/2021	39.53	26.88	12.65
	6/7/2021	39.53	27.35	12.18
	9/20/2021	39.53	30.95	8.58
	11/29/2021	39.53	29.76	9.77
	2/28/2022	39.53	29.19	10.34
	6/20/2022	39.53	20.50	19.03
	9/21/2022	39.53	31.10	8.43
	11/28/2022	39.53	29.97	9.56
	3/7/2023	39.53	29.7	9.83
	5/31/2023	39.53	26.94	12.59
	8/31/2023	39.53	30.36	9.17

Notes:

feet BTOC = feet below top of casing.

NM = not measured.

-- = not available.

TOC elevations for wells in the groundwater monitoring program were re-surveyed on December 17, 2018. Listed elevations in NAVD88 datum.

TOC elevations for wells installed in June 2019 were surveyed on July 2, 2019. Listed elevation in NAVD88 datum.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-15	7/22/1991	32.38	23.19	9.19
	4/2/1992	32.38	23.85	8.53
	7/20/1994	32.38	24.09	8.29
	10/25/1994	32.38	25.58	6.80
	2/17/1995	32.38	20.60	11.78
	4/18/1995	32.38	21.37	11.01
	7/25/1995	32.38	22.81	9.57
	10/19/1995	32.38	24.75	7.63
	1/22/1996	32.38	15.41	16.97
	4/23/1996	32.38	15.67	16.71
	8/2/1996	32.38	21.10	11.28
	11/5/1996	32.38	24.21	8.17
	1/23/1997	32.38	16.46	15.92
	4/16/1997	32.38	18.79	13.59
	7/15/1997	32.38	18.45	13.93
	11/3/1997	32.38	22.04	10.34
	2/5/1998	32.38	20.29	12.09
	9/16/1998	32.38	24.41	7.97
	8/18/1999	32.38	21.98	10.40
	12/21/1999	32.38	18.80	13.58
	10/25/2000	32.38	24.83	7.55
	2/9/2001	32.38	24.20	8.18
	5/15/2001	32.38	24.76	7.62
	8/7/2001	32.38	25.64	6.74
	12/5/2001	32.38	22.70	9.68
	4/9/2002	32.38	23.34	9.04
	7/29/2002	32.38	23.10	9.28
	11/26/2002	32.38	25.17	7.21
	3/4/2003	32.38	23.40	8.98
	5/19/2003	32.38	21.09	11.29
	12/9/2003	32.38	23.36	9.02
	3/30/2004	32.38	23.44	8.94
	8/19/2004	32.38	24.37	8.01
	11/22/2004	32.38	24.80	7.58
	2/11/2005	32.38	23.35	9.03
	5/18/2005	32.38	21.68	10.70
	9/16/2005	32.38	25.33	7.05
	11/8/2005	32.38	24.18	8.20
	1/10/2006	32.38	19.40	12.98
	3/1/2006	32.38	21.24	11.14
	3/16/2006	32.38	21.68	10.70
	6/2/2006	32.38	17.67	14.71

Please refer to notes at end of table.

Table D-2

Historical Groundwater Elevations—Area 2

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-15 (continued)	11/17/2006	32.38	22.30	10.08
	2/15/2007	32.38	23.38	9.00
	5/22/2007	32.38	20.76	11.62
	8/22/2007	32.38	24.49	7.89
	11/6/2007	32.38	25.50	6.88
	2/11/2008	32.38	22.02	10.36
	5/12/2008	32.38	21.10	11.28
	8/4/2008	32.38	22.97	9.41
	11/14/2008	32.38	23.49	8.89
	2/16/2009	32.38	23.54	8.84
	5/27/2009	32.38	18.50	13.88
	8/18/2009	32.38	24.65	7.73
	12/7/2009	32.38	23.98	8.40
MW-17	7/22/1991	34.87	24.63	10.24
	4/2/1992	34.87	25.73	9.14
	6/12/1992	34.87	25.37	9.50
	7/20/1994	34.87	26.24	8.63
	10/25/1994	34.87	27.69	7.18
	2/17/1995	34.87	23.55	11.32
	4/18/1995	34.87	24.12	10.75
	7/25/1995	34.87	25.11	9.76
	10/19/1995	34.87	26.90	7.97
	1/22/1996	34.87	18.25	16.62
	4/23/1996	34.87	18.80	16.07
	8/2/1996	34.87	23.91	10.96
	11/5/1996	34.87	26.19	8.68
	1/23/1997	34.87	18.60	16.27
	4/16/1997	34.87	21.98	12.89
	7/15/1997	34.87	21.99	12.88
	11/3/1997	34.87	24.71	10.16
	2/5/1998	34.87	23.20	11.67
	9/16/1998	34.87	26.27	8.60
	12/30/1998	34.87	21.24	13.63
	5/24/1999	34.87	21.89	12.98
	8/18/1999	34.87	24.51	10.36
	12/21/1999	34.87	21.66	13.21
	4/25/2000	34.87	21.37	13.50
	2/9/2001	34.87	26.52	8.35
	5/15/2001	34.87	26.93	7.94
	8/7/2001	34.87	27.65	7.22
	12/5/2001	34.87	25.47	9.40

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-17 (continued)	4/9/2002	34.87	25.43	9.44
	7/29/2002	34.87	25.23	9.64
	11/26/2002	34.87	27.10	7.77
	3/4/2003	34.87	25.68	9.19
	5/19/2003	34.87	23.83	11.04
	12/9/2003	34.87	27.95	6.92
	3/30/2004	34.87	25.46	9.41
	8/19/2004	34.87	26.43	8.44
	11/22/2004	34.87	26.97	7.90
	2/11/2005	34.87	25.90	8.97
	5/18/2005	34.87	24.40	10.47
	9/16/2005	34.87	27.35	7.52
	11/8/2005	34.87	26.40	8.47
	1/10/2006	34.87	22.14	12.73
	3/1/2006	34.87	23.45	11.42
	3/16/2006	34.87	23.68	11.19
	6/2/2006	34.87	20.00	14.87
	8/7/2006	34.87	25.35	9.52
	11/17/2006	34.87	24.74	10.13
	2/15/2007	34.87	25.16	9.71
	5/22/2007	34.87	23.55	11.32
	8/22/2007	34.87	26.36	8.51
	11/6/2007	34.87	27.43	7.44
	2/11/2008	34.87	24.64	10.23
	5/12/2008	34.87	23.83	11.04
	8/4/2008	34.87	25.03	9.84
	11/14/2008	34.87	25.79	9.08
	2/16/2009	34.87	25.69	9.18
	5/27/2009	34.87	21.92	12.95
	8/18/2009	34.87	26.51	8.36
	12/7/2009	34.87	26.26	8.61
	3/15/2010	34.87	25.76	9.11
	6/1/2010	34.87	24.05	10.82
	8/30/2010	34.87	26.10	8.77
	11/29/2010	34.87	25.44	9.43
	3/30/2011	34.87	22.69	12.18
	5/31/2011	34.87	16.49	18.38
	9/14/2011	34.87	27.18	7.69
	12/12/2011	34.87	25.86	9.01
	7/2/2012	34.87	20.28	14.59
	9/26/2012	34.87	26.31	8.56
	12/3/2012	34.87	23.70	11.17

Please refer to notes at end of table.

Table D-2

Historical Groundwater Elevations—Area 2

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-17 (continued)	6/17/2013	34.87	24.44	10.43
	12/10/2013	34.87	25.96	8.91
	6/11/2014	34.87	22.94	11.93
	12/17/2014	34.87	25.16	9.71
	6/20/2016	34.87	24.82	10.05
	12/5/2016	34.87	24.61	10.26
	6/26/2017	34.87	20.93	13.94
	12/11/2017	34.87	25.23	9.64
	6/25/2018	34.87	23.65	11.22
	12/17/2018	36.95	26.35	10.60
	3/4/2019	36.95	25.79	11.16
	6/18/2019	36.95	24.41	12.54
	9/9/2019	36.95	26.50	10.45
	12/9/2019	36.95	26.88	10.07
	3/16/2020	36.95	25.44	11.51
	6/8/2020	36.95	21.19	15.76
	9/8/2020	36.95	26.52	10.43
	11/30/2020	36.95	26.02	10.93
	3/8/2021	36.95	24.44	12.51
	6/7/2021	36.95	23.91	13.04
	9/20/2021	36.95	27.05	9.90
	11/29/2021	36.95	25.76	11.19
MW-23	2/28/2022	36.95	24.66	12.29
	6/20/2022	36.95	17.21	19.74
	7/22/1991	35.99	26.90	9.09
	4/2/1992	35.99	27.57	8.42
	6/12/1992	35.99	26.56	9.43
	7/20/1994	35.99	27.65	8.34
	10/25/1994	35.99	29.10	6.89
	2/17/1995	35.99	23.88	12.11
	4/18/1995	35.99	24.71	11.28
	7/25/1995	35.99	26.68	9.31
	10/19/1995	35.99	27.32	8.67
	1/22/1996	35.99	11.20	24.79
	4/23/1996	35.99	19.35	16.64
	8/2/1996	35.99	25.10	10.89
	11/5/1996	35.99	27.99	8.00
	1/23/1997	35.99	19.34	16.65
	4/16/1997	35.99	22.65	13.34
	7/15/1997	35.99	22.74	13.25
	11/3/1997	35.99	25.52	10.47
	2/5/1998	35.99	22.95	13.04
	9/16/1998	35.99	27.99	8.00
	12/30/1998	35.99	20.74	15.25
	5/24/1999	35.99	22.47	13.52
	8/18/1999	35.99	26.82	9.17
	12/21/1999	35.99	21.81	14.18
	7/29/2002	35.99	26.60	9.39
	11/26/2002	35.99	28.30	7.69

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-23 (continued)	3/4/2003	35.99	26.39	9.60
	5/19/2003	35.99	24.14	11.85
	12/9/2003	35.99	26.35	9.64
	3/30/2004	35.99	26.37	9.62
	8/19/2004	35.99	27.69	8.30
	11/22/2004	35.99	28.16	7.83
	2/11/2005	35.99	26.65	9.34
	5/18/2005	35.99	24.74	11.25
	9/16/2005	35.99	14.36	21.63
	11/8/2005	35.99	26.85	9.14
	1/10/2006	35.99	12.02	23.97
	3/16/2006	35.99	25.01	10.98
	6/2/2006	35.99	21.54	14.45
	8/7/2006	35.99	27.34	8.65
	11/17/2006	35.99	24.97	11.02
	2/15/2007	35.99	26.79	9.20
	2/16/2009	35.99	26.92	9.07
	8/18/2009	35.99	28.41	7.58
	3/15/2010	35.99	26.86	9.13
	6/1/2010	35.99	24.89	11.10
	8/30/2010	35.99	28.03	7.96
	11/29/2010	35.99	26.54	9.45
	3/30/2011	35.99	22.30	13.69
	5/31/2011	35.99	14.65	21.34
	9/14/2011	35.99	27.12	8.87
	12/12/2011	35.99	27.09	8.90
	7/2/2012	35.99	19.94	16.05
	9/26/2012	35.99	NM	—
	12/3/2012	35.99	23.32	12.67
	6/17/2013	35.99	25.17	10.82
	12/10/2013	35.99	27.25	8.74
	6/11/2014	35.99	23.31	12.68
	12/17/2014	35.99	NM	—
	6/20/2016	35.99	26.25	9.74
	12/5/2016	35.99	25.10	10.89
	6/26/2017	35.99	22.12	13.87
	12/11/2017	35.99	26.30	9.69
	6/25/2018	35.99	18.74	17.25
	12/17/2018	36.89	21.71	15.18
	3/4/2019	36.89	18.96	17.93
	6/18/2019	36.89	NM	NM
	9/9/2019	36.89	22.31	14.58
	12/9/2019	36.89	22.81	14.08
	3/16/2020	36.89	19.54	17.35
	6/8/2020	36.89	18.66	18.23
	9/8/2020	36.89	23.99	12.9
	11/30/2020	36.89	21.04	15.85
	3/8/2021	36.89	17.57	19.32
	6/7/2021	36.89	19.77	17.12
	9/20/2021	36.89	22.60	14.29
	11/29/2021	36.89	19.57	17.32
	2/28/2022	36.89	18.81	18.08
	6/20/2022	36.89	15.31	21.58

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-24	7/22/1991	32.23	12.65	19.58
	4/2/1992	32.23	12.79	19.44
	6/12/1992	32.23	13.22	19.01
	7/20/1994	32.23	13.81	18.42
	10/25/1994	32.23	14.75	17.48
	2/17/1995	32.23	12.05	20.18
	4/18/1995	32.23	11.51	20.72
	7/25/1995	32.23	12.44	19.79
	10/19/1995	32.23	13.26	18.97
	4/23/1996	32.23	9.38	22.85
	8/2/1996	32.23	11.21	21.02
	11/5/1996	32.23	12.93	19.30
	1/23/1997	32.23	8.36	23.87
	4/16/1997	32.23	9.68	22.55
	7/15/1997	32.23	10.52	21.71
	11/3/1997	32.23	12.61	19.62
	2/5/1998	32.23	11.45	20.78
	9/16/1998	32.23	13.25	18.98
	12/30/1998	32.23	11.63	20.60
	5/24/1999	32.23	10.48	21.75
	8/18/1999	32.23	12.14	20.09
	12/21/1999	32.23	12.24	19.99
	4/25/2000	32.23	11.60	20.63
	10/25/2000	32.23	14.20	18.03
	2/9/2001	32.23	14.01	18.22
	5/15/2001	32.23	14.21	18.02
	8/7/2001	32.23	14.75	17.48
	12/5/2001	32.23	14.32	17.91
	4/9/2002	32.23	11.92	20.31
	7/29/2002	32.23	12.83	19.40
	11/26/2002	32.23	14.45	17.78
	3/4/2003	32.23	12.63	19.60
	5/19/2003	32.23	12.11	20.12
	12/9/2003	32.23	13.84	18.39
	3/30/2004	32.23	12.24	19.99
	8/19/2004	32.23	13.86	18.37
	11/22/2004	32.23	14.20	18.03
	2/11/2005	32.23	13.74	18.49
	5/18/2005	32.23	13.20	19.03
	3/16/2006	32.23	10.98	21.25
	6/2/2006	32.23	10.84	21.39
	8/7/2006	32.23	12.85	19.38
	11/17/2006	32.23	13.16	19.07

Please refer to notes at end of table.

Table D-2

Historical Groundwater Elevations—Area 2

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-24 (continued)	2/15/2007	32.23	12.06	20.17
	5/22/2007	32.23	11.65	20.58
	8/22/2007	32.23	13.43	18.80
	11/6/2007	32.23	14.04	18.19
	2/11/2008	32.23	12.22	20.01
	5/12/2008	32.23	12.03	20.20
	8/4/2008	32.23	12.56	19.67
	11/14/2008	32.23	13.82	18.41
	2/16/2009	32.23	13.02	19.21
	8/18/2009	32.23	13.20	19.03
	12/7/2009	32.23	13.60	18.63
	3/15/2010	32.23	13.02	19.21
	6/1/2010	32.23	11.88	20.35
	8/30/2010	32.23	12.59	19.64
	11/29/2010	32.23	12.36	19.87
	3/30/2011	32.23	9.96	22.27
	5/31/2011	32.23	8.65	23.58
	9/14/2011	32.23	12.19	20.04
	12/12/2011	32.23	12.51	19.72
	7/2/2013	32.23	9.82	22.41
	9/26/2012	32.23	12.70	19.53
	12/3/2012	32.23	11.79	20.44
	6/20/2016	32.23	11.95	20.28
	12/5/2016	32.23	11.99	20.24
	6/26/2017	32.23	9.59	22.64
	12/11/2017	32.23	11.33	20.9
	6/25/2018	32.23	11.32	20.91
	12/17/2018	34.18	13.39	20.79
	3/4/2019	34.18	7.68	26.5
	6/18/2019	34.18	12.01	22.17
	9/9/2019	34.18	13.39	20.79
	12/9/2019	34.18	13.89	20.29
	3/16/2020	34.18	11.92	22.26
	6/8/2020	34.18	11.89	22.29
	9/8/2020	34.18	13.48	20.7
	11/30/2020	34.18	13.48	20.7
	3/8/2021	34.18	10.45	23.73
	6/7/2021	34.18	12.10	22.08
	9/20/2021	34.18	13.86	20.32
	11/29/2021	34.18	12.70	21.48
	2/28/2022	34.27	11.37	22.90
	6/20/2022	34.27	9.92	24.35
MW-31	4/2/1992	35.04	25.20	9.84
	6/12/1992	35.04	25.03	10.01
	7/20/1994	35.04	26.04	9.00
	2/17/1995	35.04	23.38	11.66
	4/18/1995	35.04	23.80	11.24
	7/25/1995	35.04	24.70	10.34
	10/19/1995	35.04	26.50	8.54
	1/22/1996	35.04	18.29	16.75
	4/23/1996	35.04	18.60	16.44
	8/2/1996	35.04	23.43	11.61

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-31 (continued)	11/5/1996	35.04	25.80	9.24
	1/23/1997	35.04	18.67	16.37
	4/16/1997	35.04	21.63	13.41
	7/15/1997	35.04	21.65	13.39
	11/3/1997	35.04	24.46	10.58
	2/5/1998	35.04	23.00	12.04
	9/16/1998	35.04	25.89	9.15
	12/30/1998	35.04	21.64	13.40
	5/24/1999	35.04	21.73	13.31
	8/18/1999	35.04	24.17	10.87
	12/21/1999	35.04	21.92	13.12
	4/25/2000	35.04	21.29	13.75
	2/9/2001	35.04	26.71	8.33
	5/15/2001	35.04	26.78	8.26
	8/7/2001	35.04	27.78	7.26
	12/5/2001	35.04	25.26	9.78
	4/9/2002	35.04	25.11	9.93
	7/29/2002	35.04	24.90	10.14
	11/26/2002	35.04	26.89	8.15
	3/4/2003	35.04	25.50	9.54
	12/9/2003	35.04	25.82	9.22
	3/30/2004	35.04	25.13	9.91
	8/19/2004	35.04	26.20	8.84
	11/22/2004	35.04	26.76	8.28
	2/11/2005	35.04	27.80	7.24
	5/18/2005	35.04	24.49	10.55
	9/16/2005	35.04	27.03	8.01
	11/8/2005	35.04	26.35	8.69
	3/1/2006	35.04	23.20	11.84
	3/16/2006	35.04	23.36	11.68
	6/2/2006	35.04	19.93	15.11
	8/7/2006	35.04	24.91	10.13
	2/15/2007	35.04	24.77	10.27
	5/22/2007	35.04	23.29	11.75
	8/22/2007	35.04	26.00	9.04
	11/6/2007	35.04	27.10	7.94
	2/11/2008	35.04	24.46	10.58
	5/12/2008	35.04	23.61	11.43
	8/4/2008	35.04	24.62	10.42
	11/14/2008	35.04	25.77	9.27

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-31 (continued)	2/16/2009	35.04	25.32	9.72
	5/27/2009	35.04	21.94	13.10
	8/18/2009	35.04	26.10	8.94
	12/7/2009	35.04	26.00	9.04
	1/21/2019	37.05	25.35	11.70
	3/4/2019	37.05	25.49	11.56
	6/18/2019	37.05	24.04	13.01
	9/9/2019	37.05	26.84	10.21
	12/9/2019	37.05	26.68	10.37
	3/16/2020	37.05	25.07	11.98
MW-35	6/8/2020	37.05	21.24	15.81
	9/8/2020	37.05	26.13	10.92
	1/23/1997	31.18	14.46	16.72
	4/16/1997	31.18	17.84	13.34
	7/15/1997	31.18	17.41	13.77
	11/3/1997	31.18	19.06	12.12
	2/5/1998	31.18	17.41	13.77
	9/16/1998	31.18	21.42	9.76
	12/30/1998	31.18	16.25	14.93
	5/24/1999	31.18	16.21	14.97
	8/18/1999	31.18	19.25	11.93
	12/21/1999	31.18	16.75	14.43
	4/25/2000	31.18	16.95	14.23
	10/25/2000	31.18	21.86	9.32
	2/9/2001	31.18	21.49	9.69
	5/15/2001	31.18	21.76	9.42
	8/7/2001	31.18	22.75	8.43
	12/5/2001	31.18	21.29	9.89
	4/9/2002	31.18	20.33	10.85
	7/29/2002	31.18	19.92	11.26
	11/26/2002	31.18	22.05	9.13
	3/4/2003	31.18	20.28	10.90
	5/19/2003	31.18	18.55	12.63
	12/9/2003	31.18	21.14	10.04
	3/30/2004	31.18	20.30	10.88
	8/19/2004	31.18	21.46	9.72
	11/22/2004	31.18	21.83	9.35
	2/11/2005	31.18	20.82	10.36
	5/18/2005	31.18	19.49	11.69
	9/16/2005	31.18	22.24	8.94
	11/8/2005	31.18	21.71	9.47
	3/16/2006	31.18	18.44	12.74
	6/2/2006	31.18	14.76	16.42
	8/7/2006	31.18	20.44	10.74
	11/17/2006	31.18	21.10	10.08

Please refer to notes at end of table.

Table D-2

Historical Groundwater Elevations—Area 2

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-35 (continued)	2/15/2007	31.18	20.00	11.18
	5/22/2007	31.18	17.97	13.21
	8/22/2007	31.18	21.24	9.94
	11/6/2007	31.18	22.33	8.85
	2/11/2008	31.18	18.89	12.29
	5/12/2008	31.18	18.41	12.77
	8/4/2008	31.18	19.88	11.30
	11/14/2008	31.18	21.30	9.88
	2/16/2009	31.18	20.19	10.99
	5/27/2009	31.18	16.62	14.56
	8/18/2009	31.18	21.40	9.78
	12/7/2009	31.18	21.30	9.88
	3/15/2010	31.18	20.46	10.72
	6/1/2010	31.18	18.71	12.47
	8/30/2010	31.18	21.16	10.02
	11/29/2010	31.18	20.75	10.43
	3/30/2011	31.18	17.59	13.59
	5/31/2011	31.18	10.71	20.47
	9/14/2011	31.18	20.86	10.32
	12/12/2011	31.18	21.10	10.08
	7/2/2012	31.18	15.37	15.81
	9/26/2012	31.18	20.52	10.66
	12/4/2012	31.18	20.09	11.09
MW-66	9/16/2005	34.47	25.63	8.84
	11/8/2005	34.47	25.14	9.33
	3/1/2006	34.47	23.00	11.47
	3/16/2006	34.47	23.87	10.60
	6/2/2006	34.47	20.61	13.86
	8/7/2006	34.47	26.27	8.20
	11/17/2006	34.47	24.95	9.52
	2/15/2007	34.47	29.11	5.36
	5/22/2007	34.47	23.19	11.28
	8/22/2007	34.47	27.21	7.26
	11/6/2007	34.47	28.46	6.01
	2/11/2008	34.47	24.53	9.94
	5/12/2008	34.47	24.23	10.24
	8/4/2008	34.47	24.82	9.65
	11/14/2008	34.47	25.98	8.49

Please refer to notes at end of table.

Table D-2

Historical Groundwater Elevations—Area 2

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-66 (continued)	2/16/2009	34.47	26.22	8.25
	5/27/2009	34.47	22.41	12.06
	8/18/2009	34.47	27.43	7.04
	12/7/2009	34.47	26.74	7.73
	3/15/2010	34.47	26.40	8.07
	6/1/2010	34.47	24.28	10.19
	8/30/2010	34.47	27.28	7.19
	11/29/2010	34.47	26.31	8.16
	3/30/2011	34.47	21.76	12.71
	5/31/2011	34.47	18.16	16.31
	9/14/2011	34.47	26.09	8.38
	12/12/2011	34.47	26.50	7.97
	7/2/2012	34.47	19.13	15.34
	9/28/2012	34.47	27.02	7.45
	12/3/2012	34.47	24.51	9.96
	6/17/2013	34.47	23.90	10.57
	12/10/2013	34.47	26.44	8.03
	6/11/2014	34.47	21.35	13.12
	12/17/2014	34.47	25.10	9.37
	6/20/2016	34.47	23.72	10.75
	12/5/2016	34.47	22.13	12.34
	6/26/2017	34.47	16.70	17.77
	12/11/2017	34.47	23.98	10.49
	6/25/2018	34.47	20.42	14.05
	12/17/2018	36.52	26.66	9.86
	3/4/2019	36.52	23.99	12.53
	6/18/2019	36.52	22.86	13.66
	9/9/2019	36.52	27.78	8.74
	12/9/2019	36.52	27.33	9.19
	3/16/2020	36.52	23.33	13.19
	6/8/2020	36.52	21.04	15.48
	9/8/2020	36.52	27.10	9.42
	11/30/2020	36.52	24.62	11.90
	3/8/2021	36.52	20.32	16.20
	6/7/2021	36.52	23.72	12.80
	9/20/2021	36.52	28.68	7.84
	11/29/2021	36.52	22.3	14.22
	2/28/2022	36.52	22.19	14.33
	6/20/2022	36.52	17.03	19.49
	11/28/2022	36.52	25.07	11.45
MW-81	8/22/2007	32.63	24.57	8.06
	11/6/2007	32.63	25.59	7.04
	2/11/2008	32.63	22.48	10.15
	5/12/2008	32.63	21.65	10.98
	8/4/2008	32.63	23.10	9.53
	11/14/2008	32.63	23.83	8.80
	2/16/2009	32.63	23.66	8.97
	5/27/2009	32.63	22.50	10.13
	8/18/2009	32.63	24.85	7.78
	12/7/2009	32.63	24.23	8.40
	3/15/2010	32.63	24.31	8.32

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-81 (continued)	6/1/2010	32.63	21.80	10.83
	8/30/2010	32.63	25.03	7.60
	11/29/2010	32.63	24.14	8.49
	3/30/2011	32.63	20.05	12.58
	5/31/2011	32.63	13.46	19.17
	9/14/2011	32.63	23.95	8.68
	12/12/2011	32.63	24.06	8.57
	7/2/2012	32.63	16.54	16.09
	9/26/2012	32.63	24.52	8.11
	12/3/2012	32.63	21.29	11.34
	6/17/2013	32.63	21.86	10.77
	12/10/2013	32.63	23.86	8.77
	6/11/2014	32.63	19.81	12.82
	12/17/2014	32.63	22.69	9.94
	6/20/2016	32.63	22.66	9.97
	12/5/2016	32.63	22.00	10.63
	6/26/2017	32.63	17.56	15.07
	12/11/2017	32.63	22.91	9.72
	6/25/2018	32.63	20.98	11.65
	12/17/2018	34.71	24.24	10.47
	3/4/2019	34.71	NM	NM
	6/18/2019	34.71	21.74	12.97
	9/9/2019	34.71	25.10	9.61
	12/9/2019	34.71	24.94	9.77
	3/16/2020	34.71	23.48	11.23
	6/8/2020	34.71	18.47	16.24
	9/8/2020	34.71	24.90	9.81
	11/30/2020	34.71	23.94	10.77
	3/8/2021	34.71	21.72	12.99
	6/7/2021	34.71	21.10	13.61
	9/20/2021	34.71	25.00	9.71
	11/29/2021	34.71	23.30	11.41
	2/28/2022	34.71	22.40	12.31
	6/20/2022	34.71	14.63	20.08
MW-82	7/2/2019	32.89	22.21	10.68
	9/9/2019	32.89	NM	NM
	12/9/2019	32.89	23.63	9.26
	3/16/2020	32.89	22.16	10.73
	6/8/2020	32.89	17.49	15.40
	9/8/2020	32.89	23.67	9.22
	11/30/2020	32.89	22.24	10.65
	3/8/2021	32.89	20.98	11.91
	6/7/2021	32.89	21.68	11.21
	9/20/2021	32.89	24.11	8.78
	11/29/2021	32.89	21.85	11.04
	2/28/2022	32.89	21.58	11.31
	6/20/2022	32.89	13.69	19.20
	9/21/2022	32.89	23.41	9.48
	11/28/2022	32.89	22.69	10.20
	3/7/2023	32.89	21.78	11.11
	5/31/2023	32.89	18.43	14.46
	8/31/2023	32.89	23.05	9.84

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-83	7/2/2019	35.06	25.41	9.65
	9/9/2019	35.06	27.26	7.80
	12/9/2019	35.06	26.71	8.35
	3/16/2020	35.06	25.05	10.01
	6/8/2020	35.06	18.62	16.44
	9/8/2020	35.06	27.09	7.97
	11/30/2020	35.06	25.89	9.17
	3/8/2021	35.06	25.11	9.95
	6/7/2021	35.06	22.85	12.21
	9/20/2021	35.06	27.13	7.93
	11/29/2021	35.06	24.98	10.08
	2/28/2022	35.06	24.88	10.18
MW-84	6/20/2022	35.06	16.23	18.83
	7/2/2019	35.49	17.69	17.80
	9/9/2019	35.49	18.97	16.52
	12/9/2019	35.49	18.61	16.88
	3/16/2020	35.49	15.62	19.87
	6/8/2020	35.49	14.10	21.39
	9/8/2020	35.49	19.08	16.41
	11/30/2020	35.49	18.59	16.90
	3/8/2021	35.49	15.51	19.98
	6/7/2021	35.49	16.68	18.81
	9/20/2021	35.49	20.83	14.66
	11/29/2021	35.49	19.25	16.24
MW-85	2/28/2022	35.49	17.07	18.42
	6/20/2022	35.49	11.44	24.05
	7/2/2019	32.16	21.52	10.64
	9/9/2019	32.16	22.90	9.26
	12/9/2019	32.16	24.30	7.86
	3/16/2020	32.16	21.22	10.94
	6/8/2020	32.16	16.69	15.47
	9/8/2020	32.16	22.72	9.44
	11/30/2020	32.16	21.69	10.47
	3/8/2021	32.16	20.83	11.33
	6/7/2021	32.16	20.18	11.98
	9/20/2021	32.16	22.68	9.48
MW-92	11/29/2021	32.16	21.26	10.90
	2/28/2022	32.16	20.89	11.27
	6/20/2022	32.16	13.34	18.82
	7/2/2019	34.39	24.21	10.18
	9/9/2019	34.39	25.28	9.11
	12/9/2019	34.39	25.32	9.07
	3/16/2020	34.39	24.26	10.13
	6/8/2020	34.39	18.82	15.57
	9/8/2020	34.39	25.64	8.75
	12/3/2020	34.39	24.35	10.04
	3/8/2021	34.39	20.52	13.87
	6/7/2021	34.39	21.55	12.84
	9/20/2021	34.39	23.99	10.40
	11/29/2021	34.39	21.15	13.24
	2/28/2022	34.39	18.67	15.72
	6/20/2022	34.39	15.57	18.82
	11/28/2022	34.39	22.26	12.13
	5/31/2023	34.39	20.40	13.99

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
SMW-11	5/15/2002	34.73	24.61	10.12
	8/7/2002	34.73	25.07	9.66
	11/26/2002	34.73	27.75	6.98
	3/4/2003	34.73	26.14	8.59
	5/19/2003	34.73	23.89	10.84
	12/9/2003	34.73	26.59	8.14
	8/19/2004	34.73	27.22	7.51
	10/28/2004	34.73	27.20	7.53
	11/22/2004	34.73	27.69	7.04
	1/21/2005	34.73	26.78	7.95
	2/11/2005	34.73	26.38	8.35
	4/21/2005	34.73	26.83	7.90
	5/18/2005	34.73	24.98	9.75
	7/19/2005	34.73	26.24	8.49
	9/16/2005	34.73	28.18	6.55
	10/25/2005	34.73	28.11	6.62
	11/8/2005	34.73	27.17	7.56
	3/16/2006	34.73	24.39	10.34
	6/2/2006	34.73	20.34	14.39
	8/7/2006	34.73	26.09	8.64
	11/17/2006	34.73	25.59	9.14
	2/15/2007	34.73	25.86	8.87
	5/22/2007	34.73	23.47	11.26
	8/22/2007	34.73	27.02	7.71
	11/6/2007	34.73	28.66	6.07
	2/11/2008	34.73	24.85	9.88
	5/12/2008	34.73	24.67	10.06
	8/4/2008	34.73	25.20	9.53
	11/14/2008	34.73	26.98	7.75
	2/16/2009	34.73	26.19	8.54
	5/27/2009	34.73	22.75	11.98
	8/18/2009	34.73	27.40	7.33
	12/7/2009	34.73	27.02	7.71
	3/15/2010	34.73	26.58	8.15
	6/1/2010	34.73	24.68	10.05
	8/30/2010	34.73	27.18	7.55
	11/29/2010	34.73	26.62	8.11
	3/30/2011	34.73	22.28	12.45
	5/31/2011	34.73	16.64	18.09
	9/14/2011	34.73	26.06	8.67
	12/12/2011	34.73	26.81	7.92
	7/2/2012	34.73	19.50	15.23
	9/26/2012	34.73	26.92	7.81
	12/3/2012	34.73	24.54	10.19
	6/17/2013	34.73	24.04	10.69

Please refer to notes at end of table.

Table D-2**Historical Groundwater Elevations—Area 2**

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
SMW-11 (continued)	12/10/2013	34.73	26.81	7.92
	6/11/2014	34.73	22.02	12.71
	12/17/2014	34.73	25.53	9.20
	6/20/2016	34.73	24.98	9.75
	12/5/2016	34.73	24.81	9.92
	6/26/2017	34.73	19.62	15.11
	12/11/2017	34.73	25.52	9.21
	6/25/2018	Decommissioned		
SMW-12	5/15/2002	32.86	22.80	10.06
	9/16/2002	32.86	25.64	7.22
	11/26/2002	32.86	25.61	7.25
	5/19/2003	32.86	21.72	11.14
	12/9/2003	32.86	23.93	8.93
	3/30/2004	32.86	23.80	9.06
	8/19/2004	32.86	25.07	7.79
	10/28/2004	32.86	24.76	8.10
	11/22/2004	32.86	25.74	7.12
	1/21/2005	32.86	24.11	8.75
	2/11/2005	32.86	24.05	8.81
	4/21/2005	32.86	24.65	8.21
	5/18/2005	32.86	22.26	10.60
	7/19/2005	32.86	24.43	8.43
	9/16/2005	32.86	26.15	6.71
	10/25/2005	32.86	25.93	6.93
	11/8/2005	32.86	24.54	8.32
	3/1/2006	32.86	22.26	10.60
	3/16/2006	32.86	22.54	10.32
	6/2/2006	32.86	18.58	14.28
	8/7/2006	32.86	24.67	8.19
	11/17/2006	32.86	22.72	10.14
	2/15/2007	32.86	24.26	8.60
	5/22/2007	32.86	21.52	11.34
	8/22/2007	32.86	25.48	7.38
	11/6/2007	32.86	26.68	6.18
	2/11/2008	32.86	22.54	10.32
	5/12/2008	32.86	22.24	10.62
	8/4/2008	32.86	23.72	9.14
	11/14/2008	32.86	23.98	8.88
	2/16/2009	32.86	24.29	8.57
	5/27/2009	32.86	20.00	12.86
	8/18/2009	32.86	25.83	7.03
	12/7/2009	32.86	24.80	8.06
	3/15/2010	32.86	24.53	8.33
	6/1/2010	32.86	22.44	10.42
	8/30/2010	32.86	25.64	7.22
	11/29/2010	32.86	24.11	8.75

Please refer to notes at end of table.

Table D-2

Historical Groundwater Elevations—Area 2

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
SMW-12 (continued)	3/30/2011	32.86	20.25	12.61
	5/31/2011	32.86	14.02	18.84
	9/14/2011	32.86	24.74	8.12
	12/12/2011	32.86	24.68	8.18
	7/2/2012	32.86	17.46	15.40
	9/26/2012	32.86	NM	—
	12/3/2012	32.86	21.26	11.60
	6/17/2013	32.86	22.73	10.13
	12/10/2013	32.86	24.63	8.23
	6/11/2014	32.86	20.69	12.17
	12/17/2014	32.86	23.34	9.52
	6/20/2016	32.86	23.76	9.10
	12/5/2016	32.86	22.72	10.14
	6/26/2017	32.86	18.25	14.61
	12/11/2017	32.86	23.98	8.88
	6/25/2018	Decommissioned		
SMW-18	5/15/2002	33.78	24.37	9.41
	8/7/2002	33.78	26.18	7.60
	9/16/2002	33.78	27.97	5.81
	11/26/2002	33.78	27.10	6.68
	3/4/2003	33.78	26.08	7.70
	5/19/2003	33.78	23.25	10.53
	12/9/2003	33.78	25.36	8.42
	3/30/2004	33.78	25.57	8.21
	8/19/2004	33.78	26.50	7.28
	10/28/2004	33.78	26.03	7.75
	11/22/2004	33.78	27.25	6.53
	1/21/2005	33.78	25.76	8.02
	4/21/2005	33.78	26.30	7.48
	5/18/2005	33.78	23.42	10.36
	7/19/2005	33.78	26.18	7.60
	9/16/2005	33.78	27.97	5.81
	10/25/2005	33.78	27.38	6.40
	11/8/2005	33.78	26.17	7.61
	1/10/2006	33.78	20.89	12.89
	3/1/2006	33.78	24.00	9.78
	6/2/2006	33.78	20.22	13.56
	8/7/2006	33.78	26.54	7.24
	11/17/2006	33.78	24.49	9.29
	2/15/2007	33.78	26.14	7.64
	5/22/2007	33.78	23.01	10.77
	8/22/2007	33.78	27.48	6.30
	11/6/2007	33.78	28.27	5.51
	2/11/2008	33.78	24.54	9.24
	5/12/2008	33.78	23.69	10.09
	8/4/2008	33.78	25.32	8.46

Please refer to notes at end of table.

Table D-2

Historical Groundwater Elevations—Area 2

Gunderson LLC—Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
SMW-18 (continued)	2/16/2009	33.78	25.82	7.96
	5/27/2009	33.78	20.75	13.03
	8/18/2009	33.78	27.60	6.18
	12/7/2009	33.78	26.49	7.29
	6/1/2010	33.78	23.93	9.85
	8/30/2010	33.78	27.56	6.22
	11/29/2010	33.78	25.97	7.81
	3/30/2011	33.78	22.31	11.47
	5/31/2011	33.78	14.51	19.27
	9/14/2011	33.78	26.88	6.90
	12/12/2011	33.78	26.44	7.34
	6/25/2018	Decommissioned		

Notes:

feet BTOC = feet below top of casing.

NM = Not Measured.

-- = Not Applicable.

TOC elevations for wells in the groundwater monitoring program were re-surveyed on December 17, 2018. Listed elevations in NAVD88 datum.

TOC elevations for wells installed in June 2019 were surveyed on July 2, 2019. Listed elevation in NAVD88 datum.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-10	7/22/1991	34.71	8.81	25.90
	4/2/1992	34.71	8.82	25.89
	10/19/1995	34.71	9.95	24.76
	1/22/1996	34.71	7.11	27.60
	4/23/1996	34.71	6.98	27.73
	8/2/1996	34.71	8.83	25.88
	11/5/1996	34.71	8.77	25.94
	1/23/1997	34.71	6.42	28.29
	4/16/1997	34.71	7.55	27.16
	7/15/1997	34.71	8.87	25.84
	11/3/1997	34.71	8.75	25.96
	2/5/1998	34.71	7.26	27.45
	9/16/1998	34.71	9.71	25.00
	12/30/1998	34.71	7.33	27.38
	4/6/1999	34.71	7.11	27.60
	5/24/1999	34.71	8.01	26.70
	8/18/1999	34.71	9.40	25.31
	12/21/1999	34.71	7.68	27.03
	4/25/2000	34.71	8.02	26.69
	10/25/2000	34.71	9.98	24.73
	2/9/2001	34.71	8.76	25.95
	5/15/2001	34.71	8.99	25.72
	8/7/2001	34.71	10.02	24.69
	12/5/2001	34.71	6.83	27.88
	4/9/2002	34.71	8.04	26.67
	7/29/2002	34.71	9.44	25.27
	11/26/2002	34.71	10.54	24.17
	3/4/2003	34.71	7.95	26.76
	5/19/2003	34.71	8.01	26.70
	12/9/2003	34.71	9.10	25.61
	3/30/2004	34.71	7.92	26.79
	8/19/2004	34.71	10.02	24.69
	10/27/2004	34.71	11.88	22.83
	11/22/2004	34.71	9.40	25.31
	1/19/2005	34.71	13.54	21.17
	2/11/2005	34.71	8.17	26.54
	4/21/2005	34.71	10.23	24.48
	5/18/2005	34.71	7.68	27.03
	7/19/2005	34.71	11.49	23.22
	9/16/2005	34.71	9.97	24.74
	10/25/2005	34.71	11.40	23.31
	11/8/2005	34.71	9.52	25.19
	1/10/2006	34.71	7.16	27.55
	3/1/2006	34.71	7.92	26.79
	3/16/2006	34.71	7.35	27.36

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-10 (continued)	6/2/2006	34.71	7.84	26.87
	8/7/2006	34.71	9.19	25.52
	11/17/2006	34.71	8.73	25.98
	2/15/2007	34.71	7.87	26.84
	5/22/2007	34.71	8.33	26.38
	8/22/2007	34.71	9.66	25.05
	11/6/2007	34.71	9.51	25.20
	2/11/2008	34.71	6.79	27.92
	5/12/2008	34.71	8.21	26.50
	8/4/2008	34.71	9.29	25.42
	11/14/2008	34.71	9.96	24.75
	2/16/2009	34.71	8.59	26.12
	5/27/2009	34.71	8.45	26.26
	8/18/2009	34.71	9.50	25.21
	12/7/2009	34.71	10.00	24.71
	3/15/2010	34.71	8.27	26.44
	6/1/2010	34.71	8.33	26.38
	8/30/2010	34.71	8.98	25.73
	11/29/2010	34.71	8.97	25.74
	3/30/2011	34.71	7.68	27.03
	5/31/2011	34.71	7.95	26.76
	9/14/2011	34.71	9.27	25.44
	12/12/2011	34.71	9.42	25.29
	7/2/2012	34.71	8.17	26.54
	9/26/2012	34.71	9.38	25.33
	12/3/2012	34.71	8.79	25.92
	6/17/2013	34.71	8.48	26.23
	12/10/2013	34.71	9.14	25.57
	6/11/2014	34.71	8.27	26.44
	12/17/2014	34.71	8.53	26.18
	6/20/2016	32.39	6.41	25.98
	12/5/2016	32.39	6.02	26.37
	6/26/2017	32.39	5.98	26.41
	12/11/2017	32.39	5.91	26.48
	6/25/2018	32.39	6.65	25.74
	12/17/2018	34.41	7.21	27.20
	3/4/2019	34.41	4.61	29.80
	6/18/2019	34.41	6.48	27.93
	9/9/2019	34.41	7.45	26.96
	12/9/2019	34.41	7.42	26.99
	3/16/2020	34.41	5.59	28.82
	6/8/2020	34.41	6.48	27.93
	9/8/2020	34.41	7.26	27.15
	11/30/2020	34.41	6.38	28.03
	3/8/2021	34.41	4.86	29.55
	6/7/2021	34.41	6.58	27.83
	9/20/2021	34.41	7.58	26.83
	11/29/2021	34.41	5.17	29.24
	2/28/2022	34.41	5.72	28.69
	6/20/2022	34.41	5.23	29.18

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-11	7/22/1991	35.98	13.59	22.39
	4/2/1992	35.98	13.63	22.35
	7/20/1994	35.98	15.70	20.28
	10/25/1994	35.98	17.78	18.20
	2/17/1995	35.98	11.13	24.85
	4/18/1995	35.98	9.48	26.50
	7/25/1995	35.98	12.72	23.26
	10/19/1995	35.98	15.28	20.70
	4/23/1996	35.98	7.95	28.03
	8/2/1996	35.98	11.39	24.59
	11/5/1996	35.98	13.71	22.27
	1/23/1997	35.98	6.76	29.22
	4/16/1997	35.98	8.68	27.30
	7/15/1997	35.98	10.39	25.59
	11/3/1997	35.98	12.91	23.07
	2/5/1998	35.98	9.47	26.51
	9/16/1998	35.98	14.27	21.71
	12/30/1998	35.98	9.01	26.97
	4/6/1999	35.98	8.20	27.78
	5/24/1999	35.98	9.98	26.00
	8/18/1999	35.98	12.85	23.13
	12/21/1999	35.98	11.95	24.03
	4/25/2000	35.98	11.13	24.85
	10/25/2000	35.98	15.39	20.59
	2/9/2001	35.98	15.49	20.49
	5/15/2001	35.98	15.93	20.05
	8/7/2001	35.98	17.08	18.90
	12/5/2001	35.98	16.67	19.31
	4/9/2002	35.98	11.76	24.22
	7/29/2002	35.98	14.02	21.96
	11/26/2002	35.98	17.06	18.92
	3/4/2003	35.98	12.49	23.49
	5/19/2003	35.98	11.66	24.32
	12/9/2003	35.98	15.42	20.56
	3/30/2004	35.98	12.02	23.96
	8/19/2004	35.98	15.32	20.66
	10/27/2004	35.98	11.83	24.15
	11/22/2004	35.98	16.31	19.67
	1/19/2005	35.98	11.53	24.45
	2/11/2005	35.98	15.43	20.55
	4/21/2005	35.98	11.26	24.72
	5/18/2005	35.98	14.53	21.45
	7/19/2005	35.98	11.48	24.50
	9/16/2005	35.98	16.07	19.91
	10/25/2005	35.98	9.12	26.86
	11/8/2005	35.98	16.14	19.84
	1/10/2006	35.98	11.51	24.47

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-11 (continued)	3/1/2006	35.98	9.29	26.69
	3/16/2006	35.98	8.51	27.47
	6/2/2006	35.98	10.50	25.48
	8/7/2006	35.98	12.78	23.20
	11/17/2006	35.98	12.27	23.71
	2/15/2007	35.98	10.62	25.36
	5/22/2007	35.98	10.83	25.15
	8/22/2007	35.98	13.27	22.71
	11/6/2007	35.98	14.14	21.84
	2/11/2008	35.98	8.12	27.86
	5/12/2008	35.98	10.71	25.27
	8/4/2008	35.98	12.39	23.59
	11/14/2008	35.98	13.46	22.52
	2/16/2009	35.98	11.68	24.30
	5/27/2009	35.98	11.51	24.47
	8/18/2009	35.98	13.75	22.23
	12/7/2009	35.98	13.76	22.22
	3/15/2010	35.98	10.83	25.15
	6/1/2010	35.98	10.71	25.27
	8/30/2010	35.98	11.60	24.38
	11/29/2010	35.98	9.13	26.85
	3/30/2011	35.98	7.02	28.96
	5/31/2011	35.98	8.44	27.54
	9/14/2011	35.98	10.89	25.09
	12/12/2011	35.98	9.83	26.15
	7/2/2012	35.98	8.93	27.05
	9/26/2012	35.98	11.29	24.69
	12/3/2012	35.98	7.84	28.14
	6/17/2013	35.98	9.38	26.60
	12/10/2013	35.98	11.23	24.75
	6/11/2014	35.98	9.32	26.66
	12/17/2014	35.98	10.16	25.82
	6/20/2016	33.16	7.18	25.98
	12/5/2016	33.16	5.29	27.87
	6/26/2017	33.16	6.71	26.45
	12/11/2017	33.16	5.97	27.19
	6/25/2018	33.16	7.26	25.9
	12/17/2018	35.18	7.36	27.82
	3/4/2019	35.18	5.62	29.56
	6/18/2019	35.18	7.17	28.01
	9/9/2019	35.18	8.48	26.7
	12/9/2019	35.18	8.57	26.61
	3/16/2020	35.18	6.19	28.99
	6/8/2020	35.18	7.29	27.89
	9/8/2020	35.18	8.44	26.74
	11/30/2020	35.18	6.17	29.01
	3/8/2021	35.18	4.96	30.22
	6/7/2021	35.18	7.35	27.83
	9/20/2021	35.18	8.35	26.83
	11/29/2021	35.18	5.22	29.96
	2/28/2022	35.18	6.03	29.15
	6/20/2022	35.18	5.22	29.96

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-14	7/22/1991	33.51	24.45	9.06
	4/2/1992	33.51	25.21	8.30
	7/20/1994	33.51	25.89	7.62
	10/25/1994	33.51	27.18	6.33
	2/17/1995	33.51	22.27	11.24
	4/18/1995	33.51	23.51	10.00
	7/25/1995	33.51	23.00	10.51
	1/22/1996	33.51	17.10	16.41
	4/23/1996	33.51	17.22	16.29
	8/2/1996	33.51	20.92	12.59
	11/5/1996	33.51	21.60	11.91
	1/23/1997	33.51	16.97	16.54
	4/16/1997	33.51	19.64	13.87
	7/15/1997	33.51	19.91	13.60
	11/3/1997	33.51	23.85	9.66
	2/5/1998	33.51	21.10	12.41
	9/16/1998	33.51	26.18	7.33
	12/30/1998	33.51	19.20	14.31
	4/6/1999	33.51	18.67	14.84
	5/24/1999	33.51	19.87	13.64
	8/18/1999	33.51	22.68	10.83
	12/21/1999	33.51	20.27	13.24
	4/25/2000	33.51	20.26	13.25
	10/25/2000	33.51	26.22	7.29
	2/9/2001	33.51	25.59	7.92
	5/15/2001	33.51	25.41	8.10
	8/7/2001	33.51	26.74	6.77
	12/5/2001	33.51	23.40	10.11
	4/9/2002	33.51	24.37	9.14
	7/29/2002	33.51	23.97	9.54
	11/26/2002	33.51	25.30	8.21
	3/4/2003	33.51	24.02	9.49
	5/19/2003	33.51	22.05	11.46
	12/9/2003	33.51	23.88	9.63
	3/30/2004	33.51	24.03	9.48
	8/19/2004	33.51	25.18	8.33
	10/27/2004	33.51	12.87	20.64
	11/22/2004	33.51	24.14	9.37
	1/19/2005	33.51	12.24	21.27
	2/11/2005	33.51	24.62	8.89
	4/21/2005	33.51	12.26	21.25
	5/18/2005	33.51	22.85	10.66
	7/19/2005	33.51	12.57	20.94
	9/16/2005	33.51	26.23	7.28
	10/25/2005	33.51	13.28	20.23
	11/8/2005	33.51	24.31	9.20

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-14 (continued)	1/10/2006	33.51	20.32	13.19
	3/1/2006	33.51	23.19	10.32
	3/16/2006	33.51	23.18	10.33
	6/2/2006	33.51	19.02	14.49
	8/7/2006	33.51	25.22	8.29
	11/17/2006	33.51	23.44	10.07
	2/15/2007	33.51	24.91	8.60
	5/22/2007	33.51	22.02	11.49
	8/22/2007	33.51	25.79	7.72
	11/6/2007	33.51	27.07	6.44
	2/11/2008	33.51	23.70	9.81
	5/12/2008	33.51	22.92	10.59
	8/4/2008	33.51	24.53	8.98
	11/14/2008	33.51	25.30	8.21
	2/16/2009	33.51	25.11	8.40
	5/27/2009	33.51	21.03	12.48
	8/18/2009	33.51	26.00	7.51
	12/7/2009	33.51	25.33	8.18
	3/15/2010	33.51	25.10	8.41
	6/1/2010	33.51	22.93	10.58
	8/30/2010	33.51	26.33	7.18
	11/29/2010	33.51	21.79	11.72
	3/30/2011	33.51	21.07	12.44
	5/31/2011	33.51	14.82	18.69
	9/14/2011	33.51	25.33	8.18
	12/12/2011	33.51	24.10	9.41
	7/2/2012	33.24	18.34	14.90
	9/26/2012	33.24	25.79	7.45
	12/3/2012	33.24	22.41	10.83
	6/17/2013	33.24	23.02	10.22
	12/10/2013	33.24	25.20	8.04
	6/11/2014	33.24	20.75	12.49
	12/17/2014	33.24	23.61	9.63
	6/20/2016	33.24	24.49	8.75
	12/5/2016	33.24	23.20	10.04
	6/26/2017	33.24	18.85	14.39
	12/11/2017	33.24	24.03	9.21
	6/25/2018	33.24	22.02	11.22
	12/17/2018	35.58	25.48	10.10
	3/4/2019	35.58	25.19	10.39
	6/18/2019	32.82	23.21	9.61
	9/11/2019	32.82	23.54	9.28
	12/9/2019	32.82	23.28	9.54
	3/16/2020	32.82	22.16	10.66
	6/8/2020	32.82	17.20	15.62
	9/8/2020	32.82	23.47	9.35
	11/30/2020	32.82	22.48	10.34
	3/8/2021	32.82	21.03	11.79
	6/7/2021	32.82	20.66	12.16
	9/20/2021	32.82	24.16	8.66
	11/29/2021	32.82	NM	NM

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-72	9/16/2005	33.88	27.15	6.73
	11/8/2005	33.88	25.87	8.01
	1/10/2006	33.88	21.22	12.66
	3/1/2006	33.88	23.40	10.48
	3/16/2006	33.88	23.42	10.46
	6/2/2006	33.88	19.02	14.86
	8/7/2006	33.88	25.85	8.03
	11/17/2006	33.88	24.37	9.51
	2/15/2007	33.88	25.20	8.68
	5/22/2007	33.88	22.61	11.27
	8/22/2007	33.88	26.40	7.48
	11/6/2007	33.88	27.29	6.59
	2/11/2008	33.88	23.87	10.01
	5/12/2008	33.88	22.83	11.05
	8/4/2008	33.88	24.90	8.98
	11/14/2008	33.88	25.07	8.81
	2/16/2009	33.88	25.36	8.52
	5/27/2009	33.88	20.91	12.97
	8/18/2009	33.88	26.80	7.08
	12/7/2009	33.88	25.83	8.05
	3/15/2010	33.88	25.64	8.24
	6/1/2010	33.88	23.34	10.54
	8/30/2010	33.88	26.48	7.40
	11/29/2010	33.88	25.67	8.21
	3/30/2011	33.88	21.79	12.09
	5/31/2011	33.88	14.70	19.18
	9/14/2011	33.88	25.50	8.38
	12/12/2011	33.88	25.69	8.19
	7/2/2012	33.88	18.28	15.60
	9/26/2012	33.88	26.24	7.64
	12/3/2012	33.88	22.56	11.32
	6/17/2013	33.88	23.70	10.18
	12/10/2013	33.88	25.52	8.36
	6/11/2014	33.88	21.54	12.34
	12/17/2014	33.88	24.50	9.38
	6/20/2016	33.88	24.51	9.37
	12/5/2016	33.88	23.83	10.05
	6/26/2017	33.88	19.76	14.12
	12/11/2017	33.88	24.75	9.13
	6/25/2018	33.88	23.11	10.77
	12/17/2018	35.94	26.15	9.79
	3/4/2019	35.94	25.80	10.14
	6/18/2019	35.94	23.93	12.01
	9/9/2019	35.94	26.57	9.37
	12/9/2019	35.94	26.62	9.32
	3/16/2020	35.94	25.32	10.62
	6/8/2020	35.94	20.31	15.63

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-72 (continued)	9/8/2020	35.94	26.62	9.32
	11/30/2020	35.94	25.60	10.34
	3/8/2021	35.94	24.13	11.81
	6/7/2021	35.94	23.09	12.85
	9/20/2021	35.94	26.99	8.95
	11/29/2021	35.94	25.72	10.22
	2/28/2022	35.94	24.32	11.62
	6/20/2022	35.94	16.46	19.48
MW-73	9/16/2005	32.06	17.42	14.64
	11/8/2005	32.06	17.09	14.97
	1/10/2006	32.06	16.35	15.71
	3/1/2006	32.06	17.45	14.61
	3/16/2006	32.06	17.91	14.15
	6/2/2006	32.06	19.25	12.81
	8/7/2006	32.06	20.17	11.89
	11/17/2006	32.06	21.68	10.38
	2/15/2007	32.06	19.16	12.90
	5/22/2007	32.06	18.25	13.81
	8/22/2007	32.06	19.91	12.15
	11/6/2007	32.06	20.16	11.90
	2/11/2008	32.06	18.38	13.68
	5/12/2008	32.06	18.41	13.65
	5/27/2009	32.06	17.55	14.51
	8/18/2009	32.06	20.15	11.91
	12/7/2009	32.06	17.70	14.36
	3/15/2010	32.06	19.88	12.18
	6/1/2010	32.06	18.79	13.27
	8/30/2010	32.06	21.03	11.03
	11/29/2010	32.06	20.95	11.11
	3/30/2011	32.06	17.06	15.00
	5/31/2011	32.06	12.21	19.85
	9/14/2011	32.06	20.13	11.93
	12/12/2011	32.06	21.49	10.57
	7/25/2012	32.06	15.84	16.22
	9/26/2012	32.06	20.91	11.15
	12/3/2012	32.06	16.73	15.33
	6/17/2013	32.06	17.64	14.42
	12/10/2013	32.06	20.22	11.84
	6/11/2014	32.06	15.34	16.72
	12/17/2014	32.06	17.93	14.13
	6/23/2016	32.06	15.78	16.28
	12/5/2016	32.06	15.86	16.20
	6/26/2017	32.06	12.12	19.94
	12/14/2017	32.06	18.93	13.13
	6/25/2018	32.06	15.85	16.21
	12/17/2018	34.18	20.63	13.55
	3/4/2019	34.18	18.91	15.27
	6/18/2019	34.18	18.35	15.83
	9/9/2019	34.18	19.44	14.74
	12/9/2019	34.18	20.73	13.45

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-73 (continued)	3/16/2020	34.18	17.26	16.92
	6/8/2020	34.18	16.03	18.15
	9/8/2020	34.18	17.56	16.62
	11/30/2020	34.18	17.57	16.61
	3/8/2021	34.18	16.21	17.97
	6/7/2021	34.18	17.56	16.62
	9/20/2021	34.18	17.58	16.60
	11/29/2021	34.18	17.75	16.43
	2/28/2022	34.18	18.49	15.69
	6/20/2022	34.18	15.87	18.31
MW-74	12/16/2005	32.83	25.94	6.89
	1/9/2006	32.83	19.49	13.34
	1/10/2006	32.83	19.86	12.97
	3/1/2006	32.83	23.02	9.81
	3/16/2006	32.83	22.82	10.01
	6/2/2006	32.83	19.62	13.21
	8/7/2006	32.83	24.76	8.07
	11/17/2006	32.83	23.03	9.80
	2/15/2007	32.83	24.61	8.22
	5/22/2007	32.83	21.71	11.12
	8/22/2007	32.83	25.76	7.07
	11/6/2007	32.83	26.58	6.25
	2/11/2008	32.83	23.22	9.61
	5/12/2008	32.83	22.22	10.61
	11/14/2008	32.83	24.31	8.52
	2/16/2009	32.83	24.73	8.10
	5/27/2009	32.83	20.00	12.83
	8/18/2009	32.83	25.95	6.88
	12/7/2009	32.83	24.56	8.27
	3/15/2010	32.83	24.81	8.02
	6/1/2010	32.83	22.59	10.24
	8/30/2010	32.83	26.00	6.83
	11/29/2010	32.83	24.65	8.18
	3/30/2011	32.83	20.98	11.85
	5/31/2011	32.83	13.60	19.23
	9/14/2011	32.83	24.93	7.90
	12/12/2011	32.83	24.90	7.93
	7/2/2012	32.83	17.40	15.43
	9/26/2012	32.83	25.68	7.15
	12/3/2012	32.83	21.71	11.12
	6/17/2013	32.83	22.93	9.90
	12/10/2013	32.83	24.77	8.06
	6/11/2014	32.83	20.70	12.13
	12/17/2014	32.83	23.44	9.39
	6/20/2016	32.83	23.87	8.96
	12/5/2016	32.83	23.01	9.82
	6/26/2017	32.83	18.61	14.22
	12/11/2017	32.83	24.11	8.72
	6/25/2018	32.83	22.28	10.55
	12/17/2018	34.85	24.97	9.88
	3/4/2019	34.85	24.68	10.17
	6/18/2019	34.85	22.79	12.06

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-74 (continued)	9/9/2019	34.85	25.71	9.14
	12/9/2019	34.85	24.15	10.70
	3/16/2020	34.85	20.18	14.67
	6/8/2020	34.85	18.45	16.40
	9/8/2020	34.85	25.39	9.46
	11/30/2020	34.85	24.54	10.31
	3/8/2021	34.85	20.17	14.68
	6/7/2021	34.85	21.96	12.89
	9/20/2021	34.85	24.72	10.13
	11/29/2021	34.85	23.11	11.74
	2/28/2022	34.85	16.03	18.82
	6/20/2022	34.85	15.73	19.12
	11/28/2022	34.85	19.92	14.93
	5/31/2023	34.85	20.18	14.67
	8/31/2023	34.85	19.17	15.68
MW-76	12/16/2005	36.55	28.61	7.94
	1/9/2006	36.55	22.62	13.93
	1/10/2006	36.55	22.84	13.71
	3/1/2006	36.55	26.86	9.69
	3/16/2006	36.55	26.66	9.89
	6/2/2006	36.55	22.54	14.01
	8/7/2006	36.55	28.70	7.85
	11/17/2006	36.55	27.18	9.37
	2/15/2007	36.55	28.23	8.32
	5/22/2007	36.55	25.81	10.74
	8/22/2007	36.55	29.57	6.98
	11/6/2007	36.55	30.39	6.16
	2/11/2008	36.55	27.04	9.51
	5/12/2008	36.55	26.27	10.28
	8/4/2008	36.55	27.89	8.66
	11/14/2008	36.55	28.08	8.47
	2/16/2009	36.55	28.46	8.09
	5/27/2009	36.55	24.00	12.55
	8/18/2009	36.55	29.61	6.94
	12/7/2009	36.55	28.91	7.64
	3/15/2010	36.55	28.56	7.99
	6/1/2010	36.55	26.58	9.97
	8/30/2010	36.55	29.69	6.86
	11/29/2010	36.55	28.64	7.91
	3/30/2011	36.55	25.06	11.49
	5/31/2011	36.55	17.82	18.73
	9/14/2011	36.55	28.74	7.81
	12/12/2011	36.55	28.82	7.73
	7/2/2012	36.55	21.63	14.92
	9/26/2012	36.55	29.36	7.19
	12/3/2012	36.55	26.02	10.53
	6/17/2013	36.55	26.66	9.89
	12/10/2013	36.55	28.50	8.05
	6/11/2014	36.55	24.48	12.07
	12/17/2014	36.55	27.28	9.27
	6/20/2016	36.55	27.42	9.13
	12/5/2016	36.55	26.83	9.72
	6/26/2017	36.55	22.01	14.54

28.73

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-76 (continued)	12/11/2017	36.55	27.57	8.98
	6/25/2018	36.55	25.7	10.85
	12/17/2018	38.54	28.78	9.76
	3/4/2019	38.54	28.13	10.41
	6/18/2019	38.54	26.53	12.01
	9/9/2019	38.54	29.23	9.31
	12/9/2019	38.54	29.41	9.13
	3/16/2020	38.54	27.75	10.79
	6/8/2020	38.54	23.67	14.87
	9/8/2020	38.54	28.98	9.56
	11/30/2020	38.54	28.33	10.21
	3/8/2021	38.54	26.87	11.67
	6/7/2021	38.54	26.78	11.76
	9/20/2021	38.54	29.74	8.80
	11/29/2021	38.54	28.24	10.30
	2/28/2022	38.54	27.27	11.27
	6/20/2022	38.54	19.76	18.78
MW-77	12/16/2005	34.67	27.02	7.65
	1/9/2006	34.67	21.18	13.49
	1/10/2006	34.67	21.78	12.89
	3/1/2006	34.67	25.16	9.51
	3/16/2006	34.67	25.24	9.43
	6/2/2006	34.67	21.08	13.59
	8/7/2006	34.67	27.00	7.67
	11/17/2006	34.67	25.11	9.56
	2/15/2007	34.67	26.68	7.99
	5/22/2007	34.67	24.24	10.43
	8/22/2007	34.67	27.89	6.78
	11/6/2007	34.67	28.66	6.01
	2/11/2008	34.67	25.11	9.56
	5/12/2008	34.67	24.66	10.01
	11/14/2008	34.67	26.42	8.25
	2/16/2009	34.67	26.80	7.87
	5/27/2009	34.67	22.10	12.57
	8/18/2009	34.67	28.05	6.62
	12/7/2009	34.67	27.02	7.65
	3/15/2010	34.67	26.85	7.82
	6/1/2010	34.67	25.08	9.59
	8/30/2010	34.67	28.12	6.55
	11/29/2010	34.67	26.65	8.02
	3/30/2011	34.67	23.45	11.22
	5/31/2011	34.67	15.52	19.15
	9/14/2011	34.67	27.13	7.54
	12/12/2011	34.67	27.15	7.52
	7/2/2012	34.67	20.00	14.67
	9/26/2012	34.67	27.82	6.85
	12/3/2012	34.67	23.90	10.77
	6/17/2013	34.67	25.25	9.42
	12/10/2013	34.67	26.99	7.68
	6/11/2014	34.67	23.23	11.44
	12/17/2014	34.67	25.66	9.01

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-77 (continued)	6/20/2016	34.67	26.18	8.49
	12/5/2016	34.67	25.29	9.38
	6/26/2017	34.67	21.75	12.92
	12/11/2017	34.67	26.31	8.36
	6/25/2018	34.67	24.45	10.22
	12/17/2018	36.69	27.21	9.48
	3/4/2019	36.69	26.56	10.13
	6/18/2019	36.69	25.29	11.40
	9/9/2019	36.69	28.00	8.69
	12/9/2019	36.69	28.00	8.69
	3/16/2020	36.69	26.49	10.20
	6/8/2020	36.69	21.49	15.20
	9/8/2020	36.69	27.85	8.84
	11/30/2020	36.69	26.84	9.85
	3/8/2021	36.69	25.76	10.93
	6/7/2021	36.69	24.99	11.70
	9/20/2021	36.69	28.19	8.50
	11/29/2021	36.69	26.76	9.93
	2/28/2022	36.69	26.10	10.59
	6/20/2022	36.69	17.69	19.00
MW-78	12/16/2005	35.3	27.72	7.58
	1/9/2006	35.3	22.03	13.27
	1/10/2006	35.3	23.83	11.47
	3/1/2006	35.3	26.53	8.77
	3/16/2006	35.3	25.87	9.43
	6/2/2006	35.3	17.03	18.27
	8/7/2006	35.3	28.65	6.65
	11/17/2006	35.3	26.72	8.58
	2/15/2007	35.3	27.66	7.64
	5/22/2007	35.3	25.10	10.20
	8/22/2007	35.3	28.93	6.37
	11/6/2007	35.3	30.02	5.28
	2/11/2008	35.3	26.18	9.12
	5/12/2008	35.3	25.51	9.79
	8/4/2008	35.3	27.52	7.78
	11/14/2008	35.3	27.30	8.00
	2/16/2009	35.3	27.95	7.35
	5/27/2009	35.3	22.06	13.24
	8/18/2009	35.3	28.05	7.25
	12/7/2009	35.3	27.87	7.43
	8/30/2010	35.3	28.71	6.59
	11/29/2010	35.3	27.56	7.74
	3/30/2011	35.3	24.02	11.28
	5/31/2011	35.3	16.09	19.21
	9/14/2011	35.3	27.77	7.53
	12/12/2011	35.3	28.15	7.15
	7/2/2012	35.3	20.24	15.06
	9/26/2012	35.3	29.32	5.98
	12/3/2012	35.3	25.36	9.94
	12/11/2017	35.3	25.33	9.97

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-79	12/16/2005	35.34	8.14	27.20
	1/9/2006	35.34	15.18	20.16
	1/10/2006	35.34	10.53	24.81
	3/1/2006	35.34	10.86	24.48
	3/16/2006	35.34	10.45	24.89
	6/2/2006	35.34	12.50	22.84
	8/7/2006	35.34	11.66	23.68
	11/17/2006	35.34	11.27	24.07
	2/15/2007	35.34	10.90	24.44
	5/22/2007	35.34	10.65	24.69
	8/22/2007	35.34	15.72	19.62
	11/6/2007	35.34	10.71	24.63
	2/11/2008	35.34	10.75	24.59
	5/12/2008	35.34	10.78	24.56
	8/4/2008	35.34	12.20	23.14
	11/14/2008	35.34	10.92	24.42
	2/16/2009	35.34	10.81	24.53
	5/27/2009	35.34	10.69	24.65
	8/18/2009	35.34	13.20	22.14
	12/7/2009	35.34	10.67	24.67
	3/15/2010	35.34	11.03	24.31
	6/1/2010	35.34	10.73	24.61
	8/30/2010	35.34	12.00	23.34
	11/29/2010	35.34	10.49	24.85
	3/30/2011	35.34	6.69	28.65
	5/31/2011	35.34	8.67	26.67
	9/14/2011	35.34	12.43	22.91
	12/12/2011	35.34	7.60	27.74
	7/2/2012	35.34	8.71	26.63
	9/26/2012	35.34	14.89	20.45
	12/3/2012	35.34	6.20	29.14
	6/17/2013	35.34	9.17	26.17
	12/10/2013	35.34	5.69	29.65
	6/11/2014	35.34	13.37	21.97
	12/17/2014	35.34	24.50	10.84
	6/20/2016	32.85	25.12	7.73
	12/5/2016	32.85	25.08	7.77
	6/26/2017	32.85	19.74	13.11
	12/11/2017	32.85	3.27	29.58
	6/25/2018	32.85	8.96	23.89
	12/17/2018	34.89	26.71	8.183
	3/4/2019	34.89	3.21	31.683
	6/18/2019	34.89	8.55	26.343
	9/9/2019	34.89	15.11	19.78
	12/9/2019	34.89	2.99	31.90
	3/16/2020	34.89	2.69	32.20

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-79 (continued)	6/8/2020	34.89	3.51	31.38
	9/8/2020	34.89	10.99	23.90
	11/30/2020	34.89	2.81	32.08
	3/8/2021	34.89	2.78	32.11
	6/7/2021	34.89	9.54	25.35
	9/20/2021	34.89	3.25	31.64
	11/29/2021	34.89	2.73	32.16
	2/28/2022	34.89	1.38	33.51
	6/20/2022	34.89	2.95	31.94
	11/28/2022	34.89	2.95	31.94
	5/31/2023	34.89	3.72	31.17
MW-80	5/22/2007	33.91	15.41	18.50
	8/22/2007	33.91	17.71	16.20
	11/6/2007	33.91	18.77	15.14
	2/11/2008	33.91	9.79	24.12
	5/12/2008	33.91	12.75	21.16
	8/4/2008	33.91	14.91	19.00
	11/14/2008	33.91	11.75	22.16
	2/16/2009	33.91	14.07	19.84
	5/27/2009	33.91	12.62	21.29
	8/18/2009	33.91	17.01	16.90
	12/7/2009	33.91	14.62	19.29
	3/15/2010	33.91	13.23	20.68
	6/1/2010	33.91	14.61	19.30
	8/30/2010	33.91	16.22	17.69
	11/29/2010	33.91	10.59	23.32
	3/30/2011	33.91	11.41	22.50
	5/31/2011	33.91	10.05	23.86
	9/14/2011	33.91	15.11	18.80
	12/12/2011	33.91	15.28	18.63
	7/2/2012	33.91	8.85	25.06
	9/26/2012	33.91	15.58	18.33
	12/3/2012	33.91	10.90	23.01
	6/17/2013	33.91	12.27	21.64
	12/10/2013	33.91	14.72	19.19
	6/11/2014	33.91	11.89	22.02
	12/17/2014	33.91	12.86	21.05
	6/20/2016	33.91	11.90	22.01
	12/5/2016	33.91	9.80	24.11
	6/26/2017	33.91	8.22	25.69
	12/11/2017	33.91	9.71	24.20
	6/25/2018	33.91	10.86	23.05
	12/17/2018	35.96	10.05	25.91
	3/4/2019	35.96	9.09	26.87
	6/18/2019	35.96	7.27	28.69
	9/9/2019	35.96	7.61	28.35
	12/9/2019	35.96	7.61	28.35
	3/16/2020	35.96	6.52	29.44
	6/8/2020	35.96	6.36	29.6
	9/8/2020	35.96	13.96	22.00
	11/30/2020	35.96	10.96	25.00
	3/8/2021	35.96	8.72	27.24
	6/7/2021	35.96	12.28	23.68

Please refer to notes at end of table.

Table D-3**Historical Groundwater Elevations—Schnitzer ASD Yard**

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-80 (continued)	9/20/2021	35.96	12.12	23.84
	11/29/2021	35.96	9.69	26.27
	2/28/2022	35.96	13.37	22.59
	6/20/2022	35.96	6.76	29.20
MW-86	7/2/2019	33.94	23.56	10.38
	9/9/2019	33.94	25.12	8.82
	12/9/2019	33.94	24.92	9.02
	3/16/2020	33.94	23.85	10.09
	6/8/2020	33.94	18.58	15.36
	9/8/2020	33.94	25.09	8.85
	11/30/2020	33.94	24.08	9.86
	3/8/2021	33.94	22.92	11.02
	6/7/2021	33.94	22.00	11.94
	9/20/2021	33.94	25.56	8.38
	11/29/2021	33.94	24.00	9.94
	2/28/2022	33.94	23.35	10.59
	6/20/2022	33.94	14.67	19.27
MW-87	7/2/2019	35.63	23.89	11.74
	9/9/2019	35.63	25.44	10.19
	12/9/2019	35.63	25.92	9.71
	3/16/2020	35.63	23.74	11.89
	6/8/2020	35.63	21.40	14.23
	9/8/2020	35.63	24.82	10.81
	11/30/2020	35.63	24.65	10.98
	3/8/2021	35.63	23.03	12.60
	6/7/2021	35.63	24.16	11.47
	9/20/2021	35.63	25.94	9.69
	11/29/2021	35.63	24.72	10.91
	2/28/2022	35.63	23.64	11.99
	6/20/2022	35.63	17.54	18.09
MW-88	7/2/2019	33.64	10.74	22.90
	9/9/2019	33.64	11.80	21.84
	12/9/2019	33.64	18.41	15.23
	3/16/2020	33.64	9.09	24.55
	6/8/2020	33.64	8.97	24.67
	9/8/2020	33.64	11.54	22.10
	11/30/2020	33.64	10.04	23.60
	3/8/2021	33.64	6.97	26.67
	6/7/2021	33.64	9.19	24.45
	9/20/2021	33.64	12.02	21.62
	11/29/2021	33.64	8.59	25.05
	2/28/2022	33.64	7.76	25.88
	6/20/2022	33.64	5.85	27.79

Please refer to notes at end of table.

Table D-3

Historical Groundwater Elevations—Schnitzer ASD Yard

Gunderson LLC

Portland, Oregon

Well ID	Measurement Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)
MW-89	7/2/2019	33.51	20.48	13.03
	9/9/2019	33.51	21.29	12.22
	12/9/2019	33.51	22.21	11.30
	3/16/2020	33.51	22.09	11.42
	6/8/2020	33.51	16.15	17.36
	9/8/2020	33.51	22.09	11.42
	11/30/2020	33.51	20.98	12.53
	3/8/2021	33.51	18.94	14.57
	6/7/2021	33.51	18.84	14.67
	9/20/2021	33.51	22.44	11.07
	11/29/2021	33.51	21.67	11.84
	2/28/2022	33.51	21.75	11.76
	6/20/2022	33.51	13.87	19.64
MW-93	12/29/2021	33.21	NM	NM
	2/28/2022	33.21	22.24	10.97
	6/20/2022	33.21	13.83	19.38
	9/21/2022	33.21	24.00	9.21
	11/28/2022	33.21	23.28	9.93
	3/7/2023	33.21	22.99	10.22
	5/31/2023	33.21	18.14	15.07
	8/31/2023	33.21	23.48	9.73

Notes:

feet BTOC = feet below top of casing.

TOC elevations for wells in the groundwater monitoring program were re-surveyed on December 17, 2018. Listed elevations in NAVD88 datum.

TOC elevations for wells installed in June 2019 and MW-14 (following conversion to a flush-mount monument) were surveyed on July 2, 2019. Listed elevation in NAVD88 datum.

APPENDIX E

Historical Groundwater Analytical Data

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
		AREA 1																			
MW-19	12/1/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0
	12/14/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	3/30/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/12/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/7/2016	<20.0 J	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<0.501	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<0.502	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/16/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-21	8/19/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.13 J	<5.0	-	-	-	<1.0
	6/2/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.25 J	<5.0	-	-	-	<1.0
	11/30/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.22 J	<5.0	-	-	-	<1.0
	6/1/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.14 J	<5.0	<1.0	<1.0	<5.0	<1.0
	12/13/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.12 J	<5.0	<1.0	<1.0	<5.0	<1.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	0.18 J	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/18/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/12/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/11/2014	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/30/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
12/6/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
AREA 1																					
MW-21 (continued)	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/28/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/18/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/18/2018 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/10/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-22	11/30/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	12/14/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/13/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/7/2016	<20.0 J	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/14/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/20/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
11/30/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-27	8/19/2009	–	–	<1.0	–	<1.0	<2.0	<10.0	–	–	–	–	<1.0	<1.0	<1.0	0.32 J	<10	–	–	–	<2.0
	6/2/2010	–	–	<1.0	–	<1.0	<2.0	<10.0	–	–	–	–	<1.0	<1.0	<1.0	0.34 J	<10	–	–	–	<2.0
	11/30/2010	–	–	<1.0	–	<1.0	<2.0	<10.0	–	–	–	–	<1.0	<1.0	<1.0	0.24 J	<10	–	–	–	<2.0
	6/1/2011	<50	<0.40	<1.0	<2.0	<1.0	<2.0	<10.0	<20	<10	<2.0	<2.0	<1.0	<1.0	<1.0	0.22 J	<10	<2.0	<2.0	<10	<2.0
	12/13/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.19 J	<5.0	<1.0	<1.0	<5.0	<1.0
	12/13/2011 DUP	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.18 J	<5.0	<1.0	<1.0	<5.0	<1.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	0.27 J	<0.12	<0.09	<0.12	<1.0	<1.0
	3/26/2012 DUP	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	0.28 J	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/18/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/12/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/11/2014	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date																					
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
AREA 1																						
MW-27 (continued)	6/30/2015	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0	
	6/30/2015 DUP	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/6/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/28/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/10/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/21/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	11/29/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
5/31/2023	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
5/31/2023 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
MW-36	8/19/2009	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	0.51	0.35 J	<5.0	–	–	–	<1.0	
	3/16/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	0.27 J	0.28 J	<5.0	–	–	–	<1.0	
	6/2/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	0.17 J	<5.0	–	–	–	<1.0	
	6/2/2010 DUP	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	0.20 J	<5.0	–	–	–	<1.0	
	8/31/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	0.26 J	0.35 J	<5.0	–	–	–	<1.0	
	8/31/2010 DUP	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	0.23 J	0.32 J	<5.0	–	–	–	<1.0	
	11/30/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	0.18 J	0.28 J	<5.0	–	–	–	<1.0	
	6/1/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.13 J	<5.0	<1.0	<1.0	<5.0	<1.0	
	9/15/2011	<50	<0.40	<1.0	<2.0	<1.0	<2.0	<10.0	<20.0	<10.0	<2.0	<2.0	<1.0	<1.0	<1.0	0.54	<10.0	<2.0	<2.0	<10.0	<2.0	
	12/14/2011	<125	<1.0	<2.5	<5.0	<2.5	<5.0	<25.0	<50.0	<25.0	<5.0	<5.0	<2.5	<2.5	<2.5	0.55 J	<25.0	<5.0	<5.0	<25.0	<5.0	
	3/30/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	0.14 J	<0.12	<0.09	<0.12	<1.0	<1.0	
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	9/28/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/22/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	6/19/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	9/9/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<1.00	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
9/9/2013 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<1.00	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
12/13/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<1.00	<5.00	<1.0	<5.00	<1.00	<1.00	<5.00	<1.00		
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
		AREA 1																				
MW-36 (continued)	3/24/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<1.00	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/11/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<1.00	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/19/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	0.630 J	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/9/2015 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/9/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/30/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/16/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	0.660 J	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/26/2016	<20.1	<0.200	<0.500	<1.00	<1.00	<1.00	<5.01	<10.1	<1.00	<1.00	<1.00	<1.00	<0.501	<5.01	<1.01	<5.01	<1.00	<1.00	<5.01	<1.01	
	12/6/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/22/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/20/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/14/2018	<20.0	<0.100	<0.250	<0.500	<0.500	1.49 R	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	<0.500
	6/28/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/5/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/5/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/17/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/3/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/9/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/9/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/21/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/2/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/21/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	11/29/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/2/2023	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00 J1	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-37	9/18/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.0	-	-	-	-	-	
	12/31/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-	
	5/26/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-	
	8/19/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-	
	12/22/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-	
	4/26/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-	
	10/25/2000																					

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
		AREA 1																			
MW-37 (continued)	4/9/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	11/14/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	11/18/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	4/12/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	8/31/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	11/29/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	2/8/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	5/19/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	8/24/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	11/7/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	2/20/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	5/16/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	8/8/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.0	-	-	-	-	-
	11/7/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	2/15/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	5/23/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-	-
	8/21/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.0	-	-	-	-	-
11/7/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	
2/12/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	
MW-38	8/19/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.22 J	<5.0	-	-	-	<1.0
MW-39	8/19/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0
	6/2/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.18 J	<5.0	-	-	-	<1.0
	11/30/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0
	6/1/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	12/13/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	3/27/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/3/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/18/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/13/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/11/2014	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0
	12/17/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	7/6/2015	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/6/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/26/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
AREA 1																					
MW-39 (continued)	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/21/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	11/29/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
5/31/2023	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-41	12/1/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	12/14/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/16/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/23/2014	<20	<0.25	<0.5	<1	<1	<1	<5	<10	<1	<1	<1	<0.5	<0.5	<5	<1	<5	<1	<1	<5	<1
	12/17/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/7/2016	<20.0 J	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/20/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-42	11/30/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	12/14/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/17/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/7/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/14/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/20/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
11/30/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
11/28/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	11.00	<1.00	<1.00	<5.00	<1.00	
MW-43	11/29/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	12/13/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	&			

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
 Gunderson LLC—Portland, Oregon

Well ID	Sample Date																					
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
AREA 1																						
MW-43 (continued)	7/6/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/16/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/16/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/23/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/27/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/9/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00 J	<1.00	<1.00	<5.00	<1.00
	3/23/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00 J	<1.00	<1.00	<5.00	<1.00
	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/21/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/13/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/15/2018	<20.0	<0.100	<0.250	<0.500	<0.500	<0.500	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	<0.500	<1.00
	6/28/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/4/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/6/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/6/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00 Q-54	<1.00	<1.00	<5.00	<1.00
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/19/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	1/14/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/9/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/8/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
9/21/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
11/30/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
3/1/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
6/21/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
11/28/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
5/31/2023	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<1.00 J1	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-44	8/19/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	8/19/2009 DUP	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	12/7/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	11/30/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	12/13/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0	
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/11/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/24/2014	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<0.100	<5.0	<1.0	<1.0	<5.0	<1.0	
	6/11/2014	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<0.100	<5.0	<1.0	<1.0	<5.0	<1.0	
	9/19/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/23/2014	<20	<0.25	<0.5	<1	<1	<1	<5	<10	<1	<1	<1	<1	<0.5	<0.5	<5	<1	<5	<1	<1	<5	<1
	ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC—Portland, Oregon

Well ID	Sample Date																					
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
AREA 1																						
MW-44 (continued)	3/16/2015	<20	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/26/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/14/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/16/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/23/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/27/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/9/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/23/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/21/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/13/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/15/2018	<20.0	<0.100	<0.250	<0.500	<0.500	<0.500	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	<0.500	
	6/28/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/4/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/6/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/13/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/9/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
6/8/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
9/21/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
11/30/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
3/1/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
MW-45	8/19/2009	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0	
MW-49	8/19/2009	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	0.12 J	<5.0	–	–	–	<1.0	
	6/2/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	0.23 J	<5.0	–	–	–	<1.0	
	11/30/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	0.15 J	<5.0	–	–	–	<1.0	
	6/1/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/13/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.12 J	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/27/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	0.063 J	<0.11	<0.09	<0.12	<0.09	<0.10	0.13 J	<0.12	<0.09	<0.12	<1.0	<1.0	
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	6/18/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/12/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	6/11/2014	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/17/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
AREA 1																					
MW-49 (continued)	6/30/2015	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/6/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2017 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
6/10/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-50	11/29/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	11/29/2010 DUP	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	12/13/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	0.12 J	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/17/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/23/2014	<20	<0.25	<0.5	<1	<1	<1	<5	<10	<1	<1	<1	<0.5	<0.5	<5	<1	<5	<1	<1	<5	<1
	12/16/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/9/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/13/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/13/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	11/30/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
11/28/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-51	8/19/2009	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	12/7/2009	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	3/16/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	6/2/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	8/31/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	0.11 J	<5.0	–	–	–	<1.0
	8/31/2010 DUP	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	0.11 J	<5.0	–	–	–	<1.0
	11/29/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<5.0	–	–	–	<1.0
	6/1/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	9/15/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	12/13/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
AREA 1																						
MW-51 (continued)	9/28/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/22/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	6/18/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	9/9/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/11/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	<1.0	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/24/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/11/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<0.500	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/19/2014	<20.0	<0.250	<0.250	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/23/2014	<20	<0.25	<0.5	<1	<1	<1	<5	<10	<1	<1	<1	<0.5	<0.5	<5	<1	<5	<1	<1	<5	<1	
	3/15/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/26/2015	<20.0	<0.250	<0.250	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/15/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/16/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/23/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/27/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/9/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/23/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/21/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/13/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/15/2018	<20.0	<0.100	<0.250	<0.500	<0.500	<0.500	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	<0.500	
	6/28/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/4/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/6/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/13/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
6/9/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
9/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
9/10/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
3/9/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
3/9/2021 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC—Portland, Oregon

Well ID	Sample Date																				
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
AREA 1																					
MW-51 (continued)	6/8/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/8/2021 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/21/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	11/30/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	11/30/2021 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/1/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/1/2022 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/21/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/21/2022 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	11/28/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	11/28/2022 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
5/31/2023	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-52	8/19/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0
	12/7/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.14 J	<5.0	-	-	-	<1.0
	3/16/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.14 J	<5.0	-	-	-	<1.0
	3/16/2010 DUP	-	-	<1.0	-	<1.0	<2.0	<10.0	-	-	-	-	<1.0	<1.0	<1.0	<1.0	<10.0	-	-	-	<2.0
	6/2/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.13 J	<5.0	-	-	-	<1.0
	8/31/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	0.20 J	<5.0	-	-	-	<1.0
	12/2/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0
	6/2/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	0.11 J	<5.0	<1.0	<1.0	<5.0	<1.0
	9/15/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	0.12 J	<5.0	<1.0	<1.0	<5.0	<1.0
	12/13/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	0.11 J	<5.0	<1.0	<1.0	<5.0	<1.0
	3/29/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	0.10 J	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	9/28/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	3/22/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/18/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	9/9/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.0	<5.00	<1.00	<1.00	<5.00	<1.00
	3/24/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<0.100	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<0.100	<5.00	<1.00	<1.00	<5.00	<1.00
	9/19/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/15/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/30/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/14/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	10/4/2016	<20.0	<0.200	<0.500	<1.																

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
 Gunderson LLC—Portland, Oregon

Well ID	Sample Date																					
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
Concentrations in µg/L (ppb)																						
AREA 1																						
MW-52 (continued)	3/14/2018	<20.0	<0.100	<0.250	<0.500	<0.500	<0.500	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	<0.500	
	6/28/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/4/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/18/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/5/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/19/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/10/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/17/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/17/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/10/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/1/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/10/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/10/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/10/2021 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/23/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
3/2/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
6/21/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
11/29/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
6/2/2023	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
MW-53	12/7/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	12/7/2009 DUP	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	12/2/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	12/13/2011	<25	<0.200	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/27/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0	
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/12/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/15/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/6/2016	<20.0 J	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0 J	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/18/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	
JCSL SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
AREA 1																						
MW-62	1/20/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/22/2016 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/27/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/27/2016 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/7/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/23/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/26/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/20/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/14/2018	<10.0	<0.100	<0.250	<0.500	<0.500	3.25 R	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	2.06 R
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/5/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/5/2018 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/6/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/6/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/17/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2020	20.1	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/9/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/8/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/21/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/21/2021 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/201	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2021 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/2/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-70	8/19/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	3/16/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	6/2/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	8/31/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	11/30/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0	
	6/1/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.12 J	<5.0	<1.0	<1.0	<5.0	<1.0	
	9/15/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/14/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/27/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	<0.10	<0.12	<0.09	<0.12	<1.0	<1.0	
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
 Gunderson LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
AREA 1																						
MW-70 (continued)	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	9/28/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/22/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	6/18/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	9/9/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/13/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.0	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/24/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/11/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<0.100	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/19/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/15/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/30/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/14/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/17/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/27/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/6/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/23/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/20/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/15/2018	<20.0	<0.100	<0.250	<0.500	0.672 R, J	6.18 R	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	4.34 R
	6/28/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/5/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/19/2018 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/6/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
3/17/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
9/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
12/2/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
12/2/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
3/9/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
6/9/2021	25.8	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
9/21/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
3/1/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
6/21/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
11/29/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
6/2/2023	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
AREA 1																					
MW-71	6/2/2010	-	-	<1.0	-	<1.0	<2.0	<10.0	-	-	-	-	<1.0	<1.0	<1.0	0.24 J	<10	-	-	-	<2.0
	11/30/2010	-	-	<1.0	-	<1.0	<2.0	<10.0	-	-	-	-	<1.0	<1.0	<1.0	0.56 J	<10	-	-	-	<2.0
	6/1/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.20	<5.0	<1.0	<1.0	<5.0	<1.0
	12/14/2011	<50	<0.40	<1.0	<2.0	<1.0	<2.0	<10.0	<20	<10	<2.0	<2.0	<1.0	<1.0	<1.0	0.30 J	<10	<2.0	<2.0	<10	<2.0
	3/26/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	0.17 J	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/18/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/12/2013	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/11/2014	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0
	7/6/2015	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.00	<5.0	<1.0	<1.0	<5.0	<1.0
	12/17/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/21/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/6/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/19/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
6/10/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
WEX-60	12/8/2009	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	<1.0
	3/16/2010	-	-	<1.0	-	<1.0	<2.0	<10.0	-	-	-	-	<1.0	<1.0	<1.0	0.26 J	<10.0	-	-	-	<2.0
	6/2/2010	-	-	<1.0	-	<1.0	<2.0	<10.0	-	-	-	-	<1.0	<1.0	<1.0	0.22 J	<10.0	-	-	-	<2.0
	8/31/2010	-	-	<0.50	-	<0.50	<1.0	<5.0	-	-	-	-	<0.50	0.19 J	<0.50	0.20 J	<5.0	-	-	-	<1.0
	11/31/2010	-	-	<1.0	-	<1.0	<2.0	<10.0	-	-	-	-	<1.0	<1.0	<1.0	0.22 J	<10.0	-	-	-	<2.0
	11/31/2010 DUP	-	-	<1.0	-	<1.0	<2.0	<10.0	-	-	-	-	<1.0	<1.0	<1.0	0.26 J	<10.0	-	-	-	<2.0
	6/1/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	0.14 J	<0.50	0.09 J	<5.0	<1.0	<1.0	<5.0	<1.0
	6/1/2011 DUP	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.11 J	<5.0	<1.0	<1.0	<5.0	<1.0
	9/15/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.11 J	<5.0	<1.0	<1.0	<5.0	<1.0
	9/15/2011 DUP	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.10 J	<5.0	<1.0	<1.0	<5.0	<1.0
	12/13/2011	<25	<0.20	<0.50	<1.0	<0.50	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<0.50	<0.50	<0.50	0.14 J	<5.0	<1.0	<1.0	<5.0	<1.0
	3/29/2012	<1.0	<0.06	<0.14	<0.50	<0.08	<1.0	<0.13	<1.0	<0.060	<0.11	<0.09	<0.12	<0.09	<0.10	0.12 J	<0.12	<0.09	<0.12	<1.0	<1.0
	7/5/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	7/5/2012 DUP	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	9/28/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	9/28/2012 DUP	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
AREA 1																					
WEX-60 (continued)	12/4/2012	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/4/2012 DUP	<20.0	<0.250	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	3/22/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	3/22/2013 DUP	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/18/2013	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/18/2013 DUP	<20.0	<0.25	<0.50	<1.0	<1.0	<1.0	<5.0	<10.0	<1.0	<1.0	<1.0	<0.50	<0.50	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	9/9/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/11/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.0	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.0	<5.00	<1.00	<1.00	<5.00	<1.00
	3/24/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<0.100	<5.00	<1.00	<1.00	<5.00	<1.00
	3/24/2014 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<0.100	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<0.100	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2014 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<0.100	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2014 DUP	<20.0	<0.250	<0.50	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	10/29/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	10/29/2014 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/18/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/18/2014 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/15/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/30/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/30/2015 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/30/2015 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/14/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	1/20/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/22/2016 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/22/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/27/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/7/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/7/2016 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/22/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/22/2017 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/29/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/20/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/20/2017 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2017 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
 Gunderson LLC—Portland, Oregon

Well ID	Sample Date	Concentrations in µg/L (ppb)																			
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
AREA 1																					
WEX-60 (continued)	3/14/2018	<10.0	<0.100	<0.250	<0.500	0.852 R J	6.71 R	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	4.74 R
	3/14/2018 DUP	<10.0	<0.100	<0.250	<0.500	<0.500	<0.500	<5.00	<5.00	<0.500	<0.500	<0.500	<0.500	<0.250	<5.00	<0.500	<2.50	<0.500	<0.500	<2.50	<0.500
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2018 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/4/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/6/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/21/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/3/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/3/2020 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/9/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
6/11/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
9/22/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
3/2/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-90	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	2.11	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/17/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/8/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/22/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
3/2/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-91	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	7/2/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/17/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/1/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/11/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/23/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<2.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/2/2021	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/3/2022	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
 Gunderson LLC—Portland, Oregon

Well ID	Sample Date																				
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane
		Concentrations in µg/L (ppb)																			
AREA 1																					
MW-103	1/29/2021	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/9/2021	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/8/2021	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/21/2021	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	11/30/2021	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/1/2022	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/21/2022	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/21/2022	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	11/28/2022	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.01	<0.501	<5.00	<1.00	7.58	<1.00	<1.00	<5.00	<1.00
	3/7/2023	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/2/2023 DUP	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	5/31/2023	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
8/31/2023	-	-	-	<1.00	<1.00	-	-	-	-	-	-	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
AREA 2																					
MW-17	6/3/2010	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/3/2010 DUP	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/1/2010	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/1/2010 DUP	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/2/2011	<25	<0.2	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/14/2011	<25	<0.2	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/14/2011 DUP	<25	<0.2	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	3/27/2012	<1.0	<0.06	<0.14	<0.5	<0.08	<1.0	<0.13	<1.0	<0.06	<0.11	<0.09	<0.12	<0.09	<0.1	<0.1	<0.12	<0.09	<0.12	<1.0	<0.11
	3/27/2012 DUP	<1.0	<0.06	<0.14	<0.5	<0.08	<1.0	<0.13	<1.0	0.098 J	<0.11	<0.09	<0.12	<0.09	<0.1	<0.1	<0.12	<0.09	<0.12	<1.0	<0.11
	7/6/2012	<20	<0.25	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/5/2012	<20	<0.25	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/19/2013	<20	<0.25	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	6/19/2013 DUP	<20	<0.25	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	12/16/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/16/2013 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2014 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/22/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/22/2014 DUP	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	7/6/2015	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/17/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/17/2015 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/22/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/22/2016 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/9/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/9/2016 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/28/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/13/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/13/2017 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2018 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/6/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
6/19/2019	21.4	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/16/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/16/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
6/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
9/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JCSL SLV ⁶ </																					

Please refer to notes at end of table

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
 Gunderson LLC—Portland, Oregon

Well ID	Sample Date																					
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MIEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
AREA 2																						
MW-17 (continued)	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/16/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/16/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-31	9/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	8/20/2009	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	8/20/2009 DUP	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
MW-66	1/21/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/7/2009	–	–	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	–	–
MW-81	1/21/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/8/2009	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.22	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
MW-81	12/8/2009 DUP	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.03	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0
	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-82	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/17/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-83	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	7/2/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-84	6/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/16/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-85	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	7/2/2019 DUP	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-85	9/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA
JCSL SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	NA	0.79

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gundersen LLC—Portland, Oregon

Well ID	Sample Date	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
AREA 2																						
MW-92	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/12/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
SMW-12	12/1/2010	–	–	<0.50	–	<0.50	<1.0	<5.0	–	–	–	–	<0.50	<0.5	<0.50	<0.5	<5.0	–	–	–	<1.0	
	12/15/2011	<25	<0.2	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	3/27/2012	<1.0	<0.06	<0.14	<0.5	<0.08	<1.0	<0.13	<1.0	<0.06	<0.11	<0.09	<0.12	<0.09	<0.1	<0.1	<0.12	<0.09	<0.12	<1.0	<0.11	
	7/6/2012	<20	<0.25	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	7/6/2012 DUP	<20	<0.25	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/5/2012	<20	<0.25	<0.5	<1.0	<1.0	<1.0	<5.0	<10	<1.0	<1.0	<1.0	<0.5	<0.5	<5.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
	12/16/2013	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/22/2014	<20.0	<0.250	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<0.500	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/17/2015	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	1.35	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/9/2016	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
12/13/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00		
SMW-14	12/7/2009	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
SMW-18	12/7/2009	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<10.0	<5.0	<1.0	<1.0	<1.0	<1.0	2.86	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	
SCHNITZER ASD YARD																						
MW-10	12/14/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/18/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/4/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-14	1/21/2019	<20.0	0.242	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	18.9	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/5/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	14.5	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/20/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	9.42	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/11/2019	23.8	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<2.00	4.33	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/10/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	9/9/2020	53.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	13.9	<1.00	<1.00	<1.00	<1.00	3.08	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-73	Well decommissioned in January 2022																					
	12/14/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/18/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/5/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
MW-74	12/14/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
	3/5/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00	
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
 Gunderson LLC—Portland, Oregon

Well ID	Sample Date																					
		Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane	Dibromochloromethane	
		Concentrations in µg/L (ppb)																				
SCHNITZER ASD YARD																						
MW-76	12/14/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/5/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-77	12/14/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/19/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/4/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-79	12/14/2017	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/27/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/18/2018	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/4/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-86	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	1.42	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/13/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/12/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-87	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/12/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-88	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/13/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/12/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
MW-89	7/2/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/10/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	12/16/2019	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	3/18/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<2.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	6/11/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
	9/9/2020	<20.0	<0.200	<0.500	<1.00	<1.00	<1.00	<5.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<1.00	<5.00	<1.00	<1.00	<5.00	<1.00
ROD Cleanup Level ⁵		NA	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA	NA	NA	
JSCS SLV ⁶		1,500	1.2	NA	NA	1.1	8.5	8.7	7,100	NA	NA	NA	0.51	50	23	0.17	2.1	NA	NA	NA	0.79	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
		AREA 1																					
MW-19	12/1/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	0.12 J	<0.50	0.30 J	<0.50	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-
	12/14/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.50	<0.5	<0.50	0.48 J	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	3/30/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	0.11 J	<0.07	<0.15	0.32 J	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/12/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/18/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	0.30	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/7/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0 J	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0 J	<1.00	<1.00
	12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/16/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
12/2/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
12/2/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
MW-21	8/19/2009	<0.50	<0.50	0.25 J	<0.50	<0.50	<5.0	18.5	<0.50	6.99	0.37 J	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/2/2010	<0.50	<0.50	0.42 J	<0.50	<0.50	<5.0	24.2	<0.50	25.6	0.14 J	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	11/30/2010	<0.50	<0.50	0.44 J	<0.50	<0.50	<5.0	20.4	<0.50	23.9	0.20 J	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/1/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	18.0	<0.50	13.3	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	0.23 J	<10.0	<2.0	<2.0
	12/13/2011	<0.50	<0.50	0.50	<0.50	<0.50	<5.0	10.7	<0.50	7.42	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	3/26/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	21.0	<0.07	18.0	<0.14	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	13.3	<0.50	11.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	30.6	<0.50	29.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/18/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	13.6	<0.50	11.9	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/12/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	5.88	<0.50	2.07	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/11/2014	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	18.3	<0.50	12.9	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/18/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	14.5	<0.500	10.1	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/30/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.99	<0.500	0.890	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	15.9	<0.500	12.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/22/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	10.6	<0.500	6.72	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
12/6/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	10.8	<0.500	8.58	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
ROD Cleanup Level ⁵		NA	NA	NA	NA	NA	NA	NA	NA	7	70	NA	NA	NA	NA	NA	NA	NA	7.3	NA	NA	NA	NA
JSCS SLV ⁶		0.033	61	49	14	2.8	390	47	0.73	NA	61	110	0.97	NA	NA	NA	0.055	0.055	7.3	0.86	99	660	NA

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-21 (continued)	6/27/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	7.69	<0.500	5.28	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.11	<0.400	1.60	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/28/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.6	<0.400	1.05	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/18/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.839	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/18/2018 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.848	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.10	<0.400	2.29	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/10/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.730	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/10/2019 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.750	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/9/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.42	<0.400	2.07	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/1/2020	<1.00	<1.00	<0.500	<0.500	<0.500	<1.00	0.694	<0.400	0.402	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/10/2021	<1.00	<1.00	<0.500	<0.500	<0.500	<1.00	0.780	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/2021	<1.00	<1.00	<0.500	<0.500	<0.500	<1.00	0.505	<0.400	0.408	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
MW-22	11/30/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	–	–	–	<0.50	<0.50	–	–	–	–	–
	12/14/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.50	<0.5	<0.50	<0.50	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	3/26/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	<0.09	<0.07	<0.15	<0.14	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/13/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/18/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/7/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0 J	<1.00	<1.00
	12/14/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/20/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
12/2/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
11/30/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
MW-27	8/19/2009	<1.0	<1.0	0.20 J	<1.0	<1.0	<10	64.8	1.0	69.9	<1.0	<1.0	<1.0	–	–	–	<1.0	<1.0	–	–	–	–	–
	6/2/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<10	68.2	1.2	79.6	<1.0	<1.0	<1.0	–	–	–	<1.0	<1.0	–	–	–	–	–
	11/30/2010	<1.0	<1.0	0.14 J	<1.0	<1.0	<10	47.6	0.8 J	51.8	<1.0	<1.0	<1.0	–	–	–	<1.0	<1.0	–	–	–	–	–
	6/1/2011	<1.0	<1.0	0.22 J	<1.0	<1.0	<10	45.1	0.68 J	55.1	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<2.0	<8.0	<20	<4.0	<4.0
	12/13/2011	<0.50	<0.50	0.27 J	<0.50	<0.50	<5.0	27.0	<0.50	33.0	0.16 J	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	12/13/2011 DUP	<0.50	<0.50	0.31 J	<0.50	<0.50	<5.0	25.6	<0.50	29.7	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	3/26/2012	<1.0	<0.50	0.32 J	<0.11	<0.09	<0.08	42.0	0.55 J	57	<0.14	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	3/26/2012 DUP	<1.0	<0.50	0.32 J	<0.11	<0.09	<0.08	42.0	0.52 J	59	<0.14	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	28.8	<0.50	41.6	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	41.5	<0.50	53.8	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/18/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	18.1	<0.50	22.5	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/12/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<																

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-27 (continued)	6/30/2015	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	8.90	<0.50	5.80	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/30/2015 DUP	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	8.95	<0.50	5.70	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	26.6	0.280 J	47.9	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/21/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	9.54	<0.500	9.88	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/6/2016	<0.500	<1.00	0.264 J	<0.500	<0.500	<1.00 J	23.8	<0.500	32.9	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	0.50	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	6.47	<0.400	8.05	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/28/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	5.00	<0.400	7.27	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	10.9	<0.400	18.2	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	7.10	<0.400	11.2	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/10/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.94	<0.400	7.02	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/9/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	13.4	<0.400	23.3	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/1/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	6.36	<0.400	10.9	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/10/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	11.1	<0.400	18.6	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/201	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.67	<0.400	6.51	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/21/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	5.29	<0.400	7.80	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	11/29/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.31	<0.400	3.89	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
5/31/2023	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.6	<0.400	6.3	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
5/31/2023 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.8	<0.400	6.26	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
MW-36	8/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	87.2	<0.50	90.3	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	3/16/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	85.3	<0.50	81.6	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/2/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	56	<0.50	58.8	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/2/2010 DUP	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	56	<0.50	59.2	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	8/31/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	77.5	<0.50	71.8	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	8/31/2010 DUP	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	74.8	<0.50	68.4	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	11/30/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	77.4	<0.50	66.2	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/1/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	27.2	<0.50	26.4	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	9/15/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	47.8	<1.0	172	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<2.0	<8.0	<20	<4.0	<4.0
	12/14/2011	<2.5	<2.5	<2.5	<2.5	<2.5	<25.0	43.0	<2.5	133	<2.5	<2.5	<2.5	<5.0	<5.0	<5.0	<2.5	<2.5	<5.0	<20.0	<50.0	<10.0	<10.0
	3/30/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	33.0	<0.07	33.0	<0.14	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	11.3	<0.50	16.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	9/28/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	44.4	<0.50	185.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	13.4	<0.50	33.9	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	3/22/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	3.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/19/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	9/9/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
9/9/2013 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
12/13/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	21.9	<0.500	106	<0.50	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
ROD Cleanup Level ⁵		NA	NA	NA	NA	NA	NA	NA	NA	7	70	NA	NA	NA	NA	NA	NA	NA	7.3	NA	NA	NA	NA
JSCS SLV ⁶		0.033	61	49	14	2.8	390	47	0.73	NA	61	110	0.97	NA	NA	NA	0.055	0.055	7.3	0.86	99	660	NA

Please refer to notes at end of table.

Gunderson LLC–Portland , Oregon

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
		AREA 1																					
MW-37 (continued)	4/9/2002	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2002	-	-	-	-	-	-	0.590	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2003	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/12/2004	-	-	-	-	-	-	<0.50	<0.50	0.900	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/31/2004	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/29/2004	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/8/2005	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/19/2005	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/24/2005	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2005	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/20/2006	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/16/2006	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/8/2006	-	-	-	-	-	-	69.0	<1.0	73.8	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2006	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/15/2007	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/23/2007	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/21/2007	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2007	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-
2/12/2008	-	-	-	-	-	-	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-38	8/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	39.2	0.2 J	50.1	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
MW-39	8/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	6.05	<0.50	5.02	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/2/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	22.3	<0.50	29.4	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	11/30/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	9.51	<0.50	11.2	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/1/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	0.9	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	12/13/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	4.76	<0.50	3.56	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	3/27/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	0.53 J	<0.07	0.47 J	0.23 J	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	0.87	<0.50	0.77	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/3/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	1.10	<0.50	0.79	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/18/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	1.68	<0.50	1.71	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/13/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	3.28	<0.50	3.04	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/11/2014	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	1.81	<0.50	1.90	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/17/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	8.84	<0.500	6.21	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	7/6/2015	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.500	<0.500	<0.500	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.35	<0.500	1.79	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/21/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/6/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/26/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 Q-31	3.24	<0.500	2.64	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	6.26	<0.400	4.43	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
6/27/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.39	<0.400	1.18	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.760	<0.400	0.490	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
ROD Cleanup Level ⁵		NA	NA	NA	NA	NA	NA	NA	NA	7	70	NA	NA	NA	NA	NA	NA	NA	7.3	NA	NA	NA	NA
JSCS SLV ⁶		0.033	61	49	14	2.8	390	47	0.73	NA	61	110	0.97	NA	NA	NA	0.055	0.055	7.3	0.86	99	660	NA

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
		AREA 1																					
MW-39 (continued)	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.43	<0.400	1.05	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.03	<0.400	3.04	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/9/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/1/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.38	<0.400	2.52	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/10/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.04	<0.400	1.61	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.94	<0.400	1.22	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/21/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.510	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	11/29/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.63	<0.400	2.13	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
5/31/2023	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.6	<0.400	0.44	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
MW-41	12/1/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	0.58	<0.50	1.14	<0.50	<0.50	<0.50	–	–	–	<0.50	<0.50	–	–	–	–	–
	12/14/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	0.21 J	<0.5	<0.50	<0.50	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	3/26/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	<0.09	<0.07	<0.15	<0.14	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/16/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/23/2014	<0.5	<1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/17/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/7/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0 J	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/20/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/10/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
12/2/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
MW-42	11/30/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	6.12	<0.50	8.31	<0.50	<0.50	<0.50	–	–	–	<0.50	<0.50	–	–	–	–	–
	12/14/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	1.66	<0.5	3.71	<0.50	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	3/26/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	0.79 J	<0.07	0.78 J	<0.14	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/17/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/18/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.65	<0.500	3.52	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.39	<0.500	4.27	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/7/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	1.83	<0.500	3.46	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/14/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.22	<0.400	3.11	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/20/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.635</															

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-43 (continued)	7/6/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.81	<0.500	1.82	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10	<1.00	<1.00
	9/16/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.45	<0.500	0.360	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10	<1.00	<1.00
	12/16/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	5.59	<0.500	1.85	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/21/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/23/2016	<0.500	<1.00	<0.500	0.28	<0.500	<1.00	0.76	<0.500	0.26	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/27/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	5.23	<0.500	1.21	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/9/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.87	<0.500	0.980	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0 J	<1.00	<1.00
	3/23/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0 J	<1.00	<1.00
	6/27/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.400 J	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/21/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.08	<0.500	1.35	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/13/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.94	<0.400	1.56	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/15/2018	<0.250	<0.500	<0.250	<0.250	<0.250	<0.500	0.550	<0.200	<0.200	<0.200	<0.200	<0.250	<0.500	<0.500	<0.500	<0.500	<0.500	<0.250	<2.50	<10.0	<0.500	<0.500
	6/28/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/4/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.81	<0.400	1.57	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	9.02	<0.400	1.28	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/6/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.67	<0.400	0.890	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/6/2019 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.27	<0.400	0.710	<0.400	<0.400	<0.500	<1.00	<1.00 Q-54	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.536	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.580	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/11/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.71	<0.400	0.560	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/11/2019 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.73	<0.400	0.560	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	1/14/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.95	<0.400	0.730	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/18/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/9/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/10/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.730	<0.400	5.87	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.990	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
3/9/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
6/8/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
9/21/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	1.77	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
11/30/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.08	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
3/1/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
6/21/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.40												

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-44 (continued)	3/16/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10	<1.00	<1
	6/26/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10	<1.00	<1.00
	9/14/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10	<1.00	<1.00
	12/16/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/21/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/23/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/27/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.360	<0.500	0.650	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/9/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/23/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	3.270	<0.500	3.080	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.49	<0.500	2.22	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/21/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.830	<0.500	0.640	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/13/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/15/2018	<0.250	<0.500	<0.250	<0.250	<0.250	<0.500	<0.200	<0.200	<0.200	<0.200	<0.200	<0.250	<0.500	<0.500	<0.500	<0.500	<0.500	<0.250	<2.50	<10.0	<0.500	<0.500
	6/28/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/4/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/4/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/4/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/11/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/13/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/18/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/9/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/10/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
3/9/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
6/8/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.16	<0.400	0.970	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
9/21/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.18	<0.400	1.20	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
11/30/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.34	<0.400	1.57	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
3/1/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
MW-45	8/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.13 J	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
MW-49	8/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	27.0	<0.50	33.0	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/2/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	36.8	<0.50	45.0	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	11/30/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	30.9	0.13 J	0.21 J	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/1/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	9.															

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-49 (continued)	6/30/2015	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	6.60	<0.500	3.52	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	28.2	<0.500	9.67	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/22/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.28	<0.500	5.44	0.71	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/6/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.723	<0.500	0.585	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2017 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/10/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/1/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/10/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
12/2/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
MW-50	11/29/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	0.18 J	<0.50	<0.50	1.33	<0.50	<0.50	–	–	–	<0.50	<0.50	–	–	–	–	–
	11/29/2010 DUP	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	0.17 J	<0.50	<0.50	1.39	<0.50	<0.50	–	–	–	<0.50	<0.50	–	–	–	–	–
	12/13/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.50	<0.5	<0.50	1.14	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	3/26/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	0.52 J	<0.07	0.33 J	0.59 J	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	0.94	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/17/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/23/2014	<0.5	<1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	0.450 J	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<5	<10	<1	<1
	12/16/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.74	<0.500	0.62	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/9/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	0.972	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/13/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/13/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.852	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	11/30/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
11/28/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
MW-51	8/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	14.5	<0.50	14.1	0.09 J	<0.50	<0.50	–	–	–	<0.50	<0.50	–	–	–	–	–
	12/7/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	2.77	<0.50	3.05	0.22 J	<0.50	<0.50	–	–	–	<0.50	<0.50	–	–	–	–	–
	3/16/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	2.74	<0.50	2.94	<0.50	<0.50	<0.50	–	–	–	<0.5						

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene	
		Concentrations in µg/L (ppb)																						
AREA 1																								
MW-51 (continued)	9/28/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	1.26	<0.50	2.20	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	1.12	<0.50	0.70	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	3/22/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	3.48	<0.50	2.43	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	6/18/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	2.29	<0.50	2.14	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	9/9/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.32	<0.500	2.48	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	12/11/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.77	<0.50	1.12	<0.50	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	3/24/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.650	<0.50	0.740	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	6/11/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.87	<0.50	1.61	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	9/19/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.70	<0.500	1.63	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	12/23/2014	<0.5	<1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<0.5	<5	<10	<1	<1	
	3/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.39	<0.500	2.23	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	6/26/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.49	<0.500	2.44	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	9/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	14.6	<0.500	6.09	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	12/16/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	3/21/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	6/23/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	33.9	<0.500	12.8	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	9/27/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	23.2	<0.500	9.77	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	12/9/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	21.0	<0.500	7.94	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	3/23/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	29.5	<0.500	11.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	6/27/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	28.1	<0.500	14.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	9/21/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.19	<0.500	0.64	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	12/13/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	3/15/2018	<0.250	<0.500	<0.250	<0.250	<0.250	<0.500	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.250	<0.500	<0.500	<0.500	<0.500	<0.500	<0.250	<2.50	<10.0	<0.500	<0.500
	6/28/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	31.4	<0.400	11.7	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/4/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	29.4	<0.400	7.90	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/6/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.39	<0.400	1.14	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	14.0	<0.400	3.17	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/11/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	20.3	<0.400	6.06	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/13/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/18/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	14.9	<0.400	4.31	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/18/2020 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	15.7	<0.400	4.70	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/9/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	8.46	<0.400	2.40	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/9/2020 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	7.92	<0.400	2.28	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/10/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	22.7	<0.400	5.92	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/10/2020 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	23.7	<0.400															

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
		AREA 1																					
MW-51 (continued)	6/8/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	14.0	<0.400	6.07	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/8/2021 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	13.3	<0.400	5.94	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/21/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.05	<0.400	1.12	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	11/30/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.97	<0.400	1.49	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	11/30/2021 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.66	<0.400	1.43	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/1/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.21	<0.400	1.03	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/1/2022 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.04	<0.400	0.990	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/21/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.60	<0.400	2.08	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/21/2022 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.66	<0.400	2.09	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	11/28/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	11/28/2022 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	5/31/2023	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.03	<0.400	2.08	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
MW-52	8/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	12.3	<0.50	28.0	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	12/7/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	26.3	0.23 J	57.9	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	3/16/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	26.1	<0.50	57.6	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	3/16/2010 DUP	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	25.4	<1.0	56.2	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	-	-	-	-	-
	6/2/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	24.3	<0.50	53.8	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	8/31/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	22.9	<0.50	59.1	0.13 J	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	12/2/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	12.7	0.10 J	24.6	0.13 J	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/2/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	16.1	<0.5	31.2	0.11 J	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	9/15/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	13.8	<0.5	41.1	<0.50	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	12/13/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	12.4	<0.5	30.7	<0.50	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	3/29/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	11.0	<0.07	23.0	0.20 J	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	9.51	<0.50	22.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	9/28/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	0.64	<0.50	0.72	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	7.47	<0.50	18.8	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	3/22/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	0.64	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/18/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	2.00	<0.50	4.69	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	9/9/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.620	<0.500	0.780	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00
	12/12/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.92	<0.500	7.53	<0.50	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00
	3/24/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.75	<0.500	8.43	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00
	6/11/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.92	<0.500	4.44	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00
	9/19/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.420 J	<0.500	0.370 J	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/18/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	9.37	<0.500	47.7	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/15/2015	<0.500																					

Gunderson LLC—Portland , Oregon

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-62	1/20/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.82	<0.500	1.19	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/22/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.50	<0.500	1.83	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/22/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	33.6	<0.500	7.89	0.250	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/22/2016 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	33.8	<0.500	7.71	0.270	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/27/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	13.3	<0.500	3.49	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/27/2016 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	13.2	<0.500	3.58	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/7/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	7.51	<0.500	2.06	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/23/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/26/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	6.66	<0.500	1.41	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/20/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.35	<0.500	0.574	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.21	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/14/2018	<0.250	<0.500	<0.250	<0.250	<0.250	<0.500	1.04	<0.200	0.238 J	<0.200	<0.200	<0.250	<0.500	<0.500	<0.500	<0.500	<0.500	<0.250	<2.50	<5.00	<0.500	<0.500
	6/27/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.52	<0.400	0.578	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/5/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.732	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/5/2018 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.745	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.00	<0.400	0.710	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/6/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/6/2019 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.48	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/10/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.834	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/10/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.630	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/17/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.877	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/10/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.98	<0.400	0.603	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/10/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.25	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/1/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.830	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/9/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.680	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/8/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.74	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/21/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/21/2021 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/201	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.750	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/2021 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	0.874	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/2/2022	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.16	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
MW-70	8/19/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	5.9	<0.50	1.81	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	3/16/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	4.8	2.16	1.35	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	6/2/2010	<0.50	<0.50																				

Please refer to notes at end of table.

Gunderson LLC–Portland , Oregon

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-71	6/2/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<10	41.0	1.2	43.3	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	-	-	-	-	-
	11/30/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<10	56.6	1.2	91.2	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	-	-	-	-	-
	6/1/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	8.36	<0.50	4.65	0.10 J	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	12/14/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<10	50.1	0.64 J	73.6	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<1.0	<1.0	<2.0	<8.0	<20	<4.0	<4.0
	3/26/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	21.0	<0.07	13.0	<0.14	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	9.78	<0.50	6.56	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<0.50	43.50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/18/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	25.9	<0.50	27.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/12/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	25.2	<0.50	35.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	6/11/2014	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	18.8	<0.50	23.7	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	7/6/2015	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	26.4	<0.50	41.1	<0.500	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	12/17/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	26.2	<0.500	12.3	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/21/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	26.5	0.43	59.4	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/6/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	20.7	<0.500	22.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 Q-31	7.23	<0.500	4.40	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	15.7	<0.400	36.8	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	18.4	0.408	53.9	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/19/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	5.35	<0.400	9.63	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/19/2018 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	5.12	<0.400	9.54	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/19/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	16.5	<0.400	35.5	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	8.32	<0.400	20.2	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/9/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	3.56	<0.400	2.60	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/1/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	7.66	<0.400	23.3	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/10/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	2.40	<0.400	4.89	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/2/2021	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	4.93	<0.400	16.1	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
WEX-60	12/8/2009	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	3/16/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	47.7	<1.0	67.1	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	-	-	-	-	-
	6/2/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	38.2	<1.0	56.5	<1.0	<1.0	<1.0	-	-	-	<1.0	<1.0	-	-	-	-	-
	8/31/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	37.4	0.26 J	42.6	0.17 J	<0.50	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	11/31/2010	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	38.6	<1.0	46.9	0.24 J	<1.0	<1.0	-	-	-	<1.0	<1.0	-	-	-	-	-
	11/31/2010 DUP	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	38.1	<1.0	46.8	0.24 J	<1.0	<1.0	-	-	-	<1.0	<1.0	-	-	-	-	-
	6/1/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	14.7	<0.50	20.4	0.17 J	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	6/1/2011 DUP	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	2.36	<0.50	6.65	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	9/15/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	20.0	<0.50	24.4	0.18 J	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	9/15/2011 DUP	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	19.7	<0.50	24.8	0.21 J	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	12/13/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	26.6	<0.50	34.6	0.20 J	<0.50	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<4.0	<10.0	<2.0	<2.0
	3/29/2012	<1.0	<0.50	<0.13	<0.11	<0.09	<0.08	18.0	<0.07	23.0	0.17 J	<0.10	<0.14	<0.10	<0.09	<0.09	<0.10	<0.09	<0.08	<1.0	<5.0	<0.09	<0.08
	7/5/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	9.92	<0.50	17.6	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	7/5/2012 DUP	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	9.64	<0.50	16.4	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0
	9/28/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	21.8	<0.50	24.1	<0.50	<0.50	<0										

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene	
		Concentrations in µg/L (ppb)																						
AREA 1																								
WEX-60 (continued)	12/4/2012	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	22.6	<0.50	21.5	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	12/4/2012 DUP	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	23.2	<0.50	19.6	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	3/22/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	18.8	<0.50	21.9	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	3/22/2013 DUP	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	18.9	<0.50	22.1	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	6/18/2013	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	14.2	<0.50	18.2	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	6/18/2013 DUP	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	14.4	<0.50	18.7	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<5.0	<10.0	<1.0	<1.0	
	9/9/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	21.3	<0.500	22.6	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	12/11/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	19.8	<0.50	19.7	<0.50	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	12/12/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	20.2	<0.50	20.2	<0.50	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	3/24/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	15.2	<0.50	17.3	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	3/24/2014 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	15.7	<0.50	18.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	6/11/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	11.1	<0.50	15.6	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	6/11/2014 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	12.3	<0.50	19.0	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	6/11/2014 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	15.4	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<0.500	<10.0	<1.00	<1.00	
	10/29/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	18.7	<0.500	11.3	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	10/29/2014 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	16.0	<0.500	9.64	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	12/18/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.3	<0.500	0.81	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	12/18/2014 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	1.39	<0.500	0.96	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	3/15/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	7.38	<0.500	4.01	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	6/30/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	14.6	<0.500	6.32	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	6/30/2015 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	16.3	<0.500	7.03	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	6/30/2015 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	16.6	<0.500	6.93	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	9/14/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	9.26	<0.500	5.19	0.270 J	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	1/20/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	3/22/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	3/22/2016 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
	6/22/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	9/27/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/7/2016	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/7/2016 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/22/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/22/2017 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00 J	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/29/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/20/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/20/2017 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2017 DUP	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
ROD Cleanup Level ⁵		NA	NA	NA	NA	NA	NA	NA	NA	7	70	NA	NA	NA	NA	NA	NA	NA	7.3	NA	NA	NA	NA	
JSCS SLV ⁶		0.033	61	49	14	2.8	390	47	0.73	NA	61	110	0.97	NA	NA	NA	0.055	0.055	7.3	0.86	99	660	NA	

Please refer to notes at end of table.

Gunderson LLC-Portland , Oregon

Please refer to notes at end of table

Gunderson LLC–Portland , Oregon

Please refer to notes at end of table.

Gunderson LLC–Portland , Oregon

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland , Oregon

Well ID	Sample Date	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane (EDC)	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	2-Hexanone	Isopropylbenzene	4-Isopropyltoluene
		Concentrations in µg/L (ppb)																					
AREA 2																							
MW-92	7/2/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/10/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/12/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/18/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/11/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<2.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/11/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<2.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
SMW-12	12/1/2010	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	<0.5	<0.5	<0.5	3.57	0.39 J	<0.50	-	-	-	<0.50	<0.50	-	-	-	-	-
	12/15/2011	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	1.00	0.15 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	3/27/2012	<0.13	<0.5	<0.13	<0.11	<0.09	<0.8	<0.09	<0.07	<0.15	6.40	0.47 J	<0.14	<0.1	<0.09	<0.09	<0.01	<0.09	<0.08	<1.0	<5.0	<0.09	-
	7/6/2012	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	3.64	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	7/6/2012 DUP	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	3.72	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	12/5/2012	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	9.38	0.86	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<5.0	<10	<1.0	<1.0
	12/16/2013	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	2.46	<0.500	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/22/2014	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	8.04	0.570	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/17/2015	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.500	<0.500	<0.500	6.86	0.578	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/9/2016	<0.500	<1.00	<0.500	<0.500	<0.500 J	<1.00	<0.500	<0.500	<0.500	4.63	0.302 J	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
12/13/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	2.31	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00	
SMW-14	12/7/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<10.0	<2.0	<2.0
SMW-18	12/7/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<10.0	<2.0	<2.0
SCHNITZER ASD YARD																							
MW-10	12/14/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/18/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/4/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
MW-14	1/21/2019	<0.500	<1.00	<0.500	<0.500	0.866	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/5/2019	<0.500	<1.00	<0.500	<0.500	1.13	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/20/2019	<0.500	<1.00	<0.500	<0.500	0.686	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/11/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/11/2019	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/18/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/10/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	9/9/2020	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
MW-73	Well decommissioned in January 2022																						
	12/14/2017	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	6/27/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	12/18/2018	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<0.400	<0.400	<0.400	<0.400	<0.400	<0.500	<1.00	<1.00	<1.00	<1.00	<1.00	<0.500	<5.00	<10.0	<1.00	<1.00
	3/5/2019	<0.5																					

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
		AREA 1																					
MW-19	12/1/2010	-	-	<5.0	-	-	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	0.11 J	<0.50	<0.50	-	-	<0.50	-	-
	12/14/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.50	<1.0	<2.0	<2.0	<0.50	<0.5	0.14 J	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5
	3/30/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	0.20 J	<0.09	<1.0	<0.14	<0.10	<0.50	0.14 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/12/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/18/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.50	<1.00	<2.00	<2.00	<0.50	<0.500	0.290 J	<2.00	<1.00	<1.00	<1.00	<0.500	<1.0	<0.50
	12/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/7/2016	<10.0 J	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/16/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/2/2020	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
12/2/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
MW-21	8/19/2009	-	-	<5.0	-	-	-	<0.50	<0.50	4.03	-	-	-	7.07	<0.50	0.910	<0.50	<0.50	-	-	<0.50	-	-
	6/2/2010	-	-	<5.0	-	-	-	<0.50	<0.50	4.67	-	-	-	26.6	<0.50	0.520	<0.50	<0.50	-	-	<0.50	-	-
	11/30/2010	-	-	<5.0	-	-	-	<0.50	<0.50	3.56	-	-	-	24.1	<0.50	0.47 J	<0.50	<0.50	-	-	<0.50	-	-
	6/1/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	2.53	<1.0	<1.0	<1.0	31.1	<0.50	0.49 J	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0
	12/13/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	2.80	<1.0	<1.0	<1.0	6.75	<0.50	0.580	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0
	3/26/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	2.90	<0.09	<1.0	<0.14	25.0	<0.50	0.42 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.21	<1.0	<2.0	<2.0	16.0	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	3.03	<1.0	<2.0	<2.0	27.0	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/18/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.38	<1.0	<2.0	<2.0	9.36	<1.0	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/12/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.78	<1.0	<2.0	<2.0	1.37	<0.50	0.720	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/11/2014	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.77	<1.0	<2.0	<2.0	12.60	<0.50	<0.500	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/18/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	2.90	<1.00	<2.00	<2.00	6.75	<0.500	0.790	<2.00	<1.00	<1.00	<1.00	<0.500	<1.0	<0.500
	6/30/2015	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.47	<1.00	<2.00	<2.00	0.56	<0.500	0.640	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.95	<1.00	<2.00	<2.00	6.90	<0.500	0.290 J	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/22/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.95	<1.00	<2.00	<2.00	2.62	<0.500	0.430	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
12/6/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	2.68	<1.00	<2.00	<2.00	3.63	<0.500	0.587	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500	
ROD Cleanup Level ⁵		NA	NA	NA	12	NA	NA	NA	NA	0.24	9.8	NA	NA	NA	NA	0.6	NA	NA	NA	NA	0.022	13	
JSCS SLV ⁶		170	37	8.9	0.2	NA	100	2.5	0.33	0.12	9.8	NA	8.2	11	1.2	0.17	1,300	0.0095	NA	NA	0.015	1.8	13.0

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-21 (continued)	6/27/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.96	<1.00	<2.00	<2.00	2.13	<0.500	0.510	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	2.29	<1.00	<2.00	<2.00	0.441	<0.500	0.706	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/28/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	1.22	<1.00	<2.00	<2.00	<0.400	<0.500	0.471	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/18/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.896	<1.00	<2.00	<2.00	<0.400	<0.500	0.426	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/18/2018 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.919	<1.00	<2.00	<2.00	<0.400	<0.500	0.500	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	1.37	<1.00	<2.00	<2.00	0.408	<0.500	0.438	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.720	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/10/2019 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.750	<1.00	<2.00	<2.00	<0.400	<0.500	0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	1.52	<1.00	<2.00	<2.00	0.423	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/1/2020	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	1.16	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/10/2021	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.951	<1.00	<2.00	<2.00	<0.400	<0.500	0.417	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/2/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	1.44	<1.00	<2.00	<2.00	<0.400	<0.500	0.515	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-22	11/30/2010	–	–	<5.0	–	–	–	<0.50	<0.50	<0.50	–	–	–	<0.50	<0.50	<0.50	<0.50	<0.50	–	–	<0.50	–	–
	12/14/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.50	<1.0	<2.0	<2.0	<0.50	<0.5	<0.50	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5
	3/26/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	<0.09	0.11 J	<1.0	<0.14	<0.10	<0.50	<0.14	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/13/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/18/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.50	<2.00	<1.00	<1.00	<1.00	<0.500	<1.0	<0.500
	12/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/7/2016	<10.0 J	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/14/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/20/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
12/2/2020	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
11/30/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
MW-27	8/19/2009	–	–	<10	–	–	–	<1.0	<1.0	11.3	–	–	–	29.3	<1.0	0.62 J	<1.0	<1.0	–	–	<1.0	–	–
	6/2/2010	–	–	<10	–	–	–	<1.0	<1.0	12.0	–	–	–	27.5	<1.0	0.78 J	<1.0	<1.0	–	–	<1.0	–	–
	11/30/2010	–	–	<10	–	–	–	<1.0	<1.0	9.14	–	–	–	17.5	<1.0	0.64 J	<1.0	<1.0	–	–	<1.0	–	–
	6/1/2011	<10	<2.0	<10	<4.0	<2.0	<2.0	<1.0	<1.0	7.60	<2.0	<2.0	<2.0	21.2	<1.0	0.64 J	<1.0	<1.0	<2.0	<2.0	<1.0	<4.0	<2.0
	12/13/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	5.42	<1.0	<1.0	<1.0	14.1	<0.50	0.70	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0
	12/13/2011 DUP	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	5.57	<1.0	<1.0	<1.0	13.0	<0.50	0.74	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0
	3/26/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	7.30	<0.09	<1.0	<0.14	24.0	<0.50	0.67 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	3/26/2012 DUP	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	7.70	<0.09	<1.0	<0.14	24.0	<0.50	0.69 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	5.64	<1.0	<2.0	<2.0	17.7	<0.50	0.63	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	6.03	<1.0	<2.0	<2.0	21.0	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/18/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	4.03	<1.0	<2.0	<2.0	7.20	<1.0	0.56	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/12/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	3.28	<1.0	<2.0	<2.0	8.89	<0.50	0.500	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/11/2014	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	3.17	<1.0	<2.0</											

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-27 (continued)	6/30/2015	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.84	<1.0	<2.0	<2.0	1.55	<0.50	0.690	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/30/2015 DUP	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.90	<1.0	<2.0	<2.0	1.56	<0.50	0.700	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	4.51	<1.00	<2.00	<2.00	7.93	<0.500	0.490 J	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/21/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	3.20	<1.00	<2.00	<2.00	2.31	<0.500	0.590	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/6/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	4.68	<1.00	<2.00	<2.00	5.32	<0.500	0.596	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/27/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	2.96	<1.00	<2.00	<2.00	1.21	<0.500	0.555	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/28/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	2.54	<1.00	<2.00	<2.00	0.803	<0.500	0.541	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	3.86	<1.00	<2.00	<2.00	1.91	<0.500	0.593	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	3.20	<1.00	<2.00	<2.00	0.873	<0.500	0.462	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	2.81	<1.00	<2.00	<2.00	0.550	<0.500	0.440	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	4.30	<1.00	<2.00	<2.00	1.55	<0.500	0.431	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/1/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	2.94	<1.00	<2.00	<2.00	0.592	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/10/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	2.57	<1.00	<2.00	<2.00	0.960	<0.500	0.530	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/2/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	2.17	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/21/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	2.28	<1.00	<2.00	<2.00	0.420	<0.500	0.440	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	11/29/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	1.83	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
5/31/2023	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	2.01	<1.00	<2.00	<2.00	<0.400	<0.500	0.42	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
5/31/2023 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	1.77	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
MW-36	8/19/2009	-	-	<5.0	-	-	-	<0.50	<0.50	3.75	-	-	-	55.5	<0.50	0.39 J	<0.50	<0.50	-	-	<0.50	-	-
	3/16/2010	-	-	<5.0	-	-	-	<0.50	<0.50	3.45	-	-	-	57.6	<0.50	0.22 J	<0.50	<0.50	-	-	<0.50	-	-
	6/2/2010	-	-	<5.0	-	-	-	<0.50	<0.50	2.56	-	-	-	39.6	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	-
	6/2/2010 DUP	-	-	<5.0	-	-	-	<0.50	<0.50	2.63	-	-	-	40.2	<0.50	0.08 J	<0.50	<0.50	-	-	<0.50	-	-
	8/31/2010	-	-	0.19 J	-	-	-	<0.50	<0.50	3.93	-	-	-	39.7	<0.50	0.31 J	<0.50	<0.50	-	-	<0.50	-	-
	8/31/2010 DUP	-	-	0.17 J	-	-	-	<0.50	<0.50	3.73	-	-	-	37.6	<0.50	0.28 J	<0.50	<0.50	-	-	<0.50	-	-
	11/30/2010	-	-	<5.0	-	-	-	<0.50	<0.50	3.64	-	-	-	40.5	<0.50	0.23 J	<0.50	<0.50	-	-	<0.50	-	-
	6/1/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	1.33	<1.0	<1.0	<1.0	12.1	<0.50	0.26 J	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0
	9/15/2011	<10.0	<2.0	<10.0	<4.0	<2.0	<2.0	<1.0	<1.0	2.36	<2.0	<2.0	<2.0	26.4	<1.0	0.24 J	<1.0	<1.0	<2.0	<2.0	<1.0	<4.0	<2.0
	12/14/2011	<25.0	<5.0	<25.0	<10.0	<5.0	<5.0	<2.5	<2.5	2.20 J	<5.0	<5.0	<5.0	21.0	<2.5	<2.5	<2.5	<2.5	<5.0	<5.0	<2.5	<5.0	<10.0
	3/30/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	1.60	<0.09	<1.0	<0.14	13.0	<0.50	0.22 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	0.80	<1.0	<2.0	<2.0	4.37	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	9/28/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.91	<1.0	<2.0	<2.0	23.1	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	0.61	<1.0	<2.0	<2.0	5.11	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	3/22/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/19/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<1.0	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	9/9/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<5.00	<1.00	<5.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<5.00
9/9/2013 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<5.00	<1.00	<5.00	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<5.00	
12/13/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.44	<1.00	<2.00	<2.00	10.7	<0.50	<0.50	<2.00	<1.00	<1.00	<1.00	<5.00	<1.00	<5.00	
ROD Cleanup Level ⁵		NA	NA	NA	12	NA	NA	NA	NA	0.24	9.8	NA	NA	NA	NA	0.6	NA	NA	NA	NA	0.022	13	
JSCS SLV ⁶		170	37	8.9	0.2	NA	100	2.5	0.33	0.12	9.8	NA	8.2	11	1.2	0.17	1,300	0.0095	NA	NA	0.015	1.8	13.0

Please refer to notes at end of table.

Gunderson LLC—Portland, Oregon

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-37 (continued)	4/9/2002	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	11/14/2002	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	11/18/2003	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	4/12/2004	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	8/31/2004	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	11/29/2004	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	2/8/2005	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	5/19/2005	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	8/24/2005	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	11/7/2005	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	2/20/2006	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	5/16/2006	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	8/8/2006	-	-	-	-	-	-	-	-	3.60	-	-	-	42.4	-	<0.001	-	-	-	-	-	-	-
	11/7/2006	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	2/15/2007	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	5/23/2007	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	8/21/2007	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	11/7/2007	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
	2/12/2008	-	-	-	-	-	-	-	-	<0.50	-	-	-	<0.50	-	<0.50	-	-	-	-	-	-	-
MW-38	8/19/2009	-	-	<5.0	-	-	-	<0.50	<0.50	1.97	-	-	-	54.6	<0.50	0.32 J	<0.50	<0.50	-	-	<0.50	-	-
MW-39	8/19/2009	-	-	<5.0	-	-	-	<0.50	<0.50	0.23 J	-	-	-	8.75	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	-
	6/2/2010	-	-	<5.0	-	-	-	<0.50	<0.50	1.09	-	-	-	43.0	<0.50	0.26 J	<0.50	<0.50	-	-	<0.50	-	-
	11/30/2010	-	-	<5.0	-	-	-	<0.50	<0.50	0.55	-	-	-	12.5	<0.50	0.19 J	<0.50	<0.50	-	-	<0.50	-	-
	6/1/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	0.18 J	<0.50	1.42	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0
	12/13/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	0.20 J	<1.0	<1.0	<1.0	4.54	<0.50	0.27 J	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0
	3/27/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	<0.09	<0.09	<1.0	<0.14	0.90 J	<0.50	0.61 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	1.64	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/3/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	1.44	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/18/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	2.70	<1.0	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/13/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	4.43	<1.0	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/11/2014	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.500	<1.0	<2.0	<2.0	2.72	<0.50	<0.500	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/17/2014	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	0.480 J	<1.0	<2.0	<2.0	5.02	<0.50	0.380 J	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	7/6/2015	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.500	<1.0	<2.0	<2.0	<0.500	<0.50	<0.500	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	1.64	<0.500	0.86	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/21/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/6/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/26/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.327 J	<1.00	<2.00	<2.00	2.00	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.984	<1.00	<2.00	<2.00	2.06	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	0.960	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
ROD Cleanup Level ⁵		NA	NA	NA	12	NA	NA	NA	NA	0.24	9.8	NA	NA	NA	NA	0.6	NA	NA	NA	NA	0.022	13	
JSCS SLV ⁶		170	37	8.9	0.2	NA	100	2.5	0.33	0.12	9.8	NA	8.2	11	1.2	0.17	1,300	0.0095	NA	NA	0.015	1.8	13.0

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	
		Concentrations in µg/L (ppb)																						
AREA 1																								
MW-39 (continued)	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.458	<1.00	<2.00	<2.00	0.574	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/12/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	1.25	<1.00	<2.00	<2.00	0.707	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	6/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/1/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	1.06	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	6/10/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.580	<1.00	<2.00	<2.00	0.490	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/2/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.858	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	6/21/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	11/29/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	1.620	<1.00	<2.00	<2.00	0.550	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	5/31/2023	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
MW-41	12/1/2010	–	–	<5.0	–	–	–	<0.50	<0.50	0.17 J	–	–	–	0.85	<0.50	<0.50	<0.50	<0.50	–	–	<0.50	–	–	
	12/14/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.50	<1.0	<2.0	<2.0	1.35	<0.5	<0.50	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5	
	3/26/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	0.14 J	<0.09	<1.0	<0.14	0.44 J	<0.50	<0.14	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12	
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	0.63	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/16/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	0.680	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/23/2014	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.500	<1.0	<2.0	<2.0	<0.500	<0.50	<0.500	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/17/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	12/7/2016	<10.0 J	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.460 J	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/20/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.400	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	12/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.400	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	12/2/2020	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/2/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.500	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
MW-42	11/30/2010	–	–	<5.0	–	–	–	<0.50	<0.50	0.11 J	–	–	–	12.6	<0.50	0.16 J	<0.50	<0.50	–	–	<0.50	–	–	
	12/14/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.50	<1.0	<2.0	<2.0	3.07	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5	
	3/26/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	<0.09	<0.09	<1.0	<0.14	1.8	<0.50	0.15 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12	
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/17/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	0.960	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/18/2014	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	5.28	<0.50	0.360 J	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	5.45	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	12/7/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.364 J	<1.00	<2.00	<2.00	4.94	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	12/14/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.730	<1.00	<2.00	<2.00	4.64	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/20/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.917	<1.00	<2.00	<2.00	1.80	<									

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-43 (continued)	7/6/2015	<10	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	2.38	<0.500	0.69	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/16/2015	<10	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.400 J	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/16/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	1.55	<0.500	0.65	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/21/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/23/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.28	<0.500	0.64	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/27/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	1.00	<0.500	0.260	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/9/2016	<10.0 J	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.970	<0.500	0.560	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/23/2017	<10.0 J	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	0.788	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/27/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.290 J	<0.500	0.76	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/21/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	1.01	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/13/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	0.960	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/15/2018	<5.00	<0.500	<1.50	<1.00	<0.250	<0.500	<0.200	<0.250	<0.200	<0.500	<1.00	<1.00	0.218 J	<0.250	0.312 J	<1.00	<0.500	<0.500	<0.500	<0.200	<0.500	<0.250
	6/28/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.935	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/4/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.427	<1.00	<2.00	<2.00	1.01	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	0.520	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/6/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	0.530	<0.500	0.420	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/6/2019 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	0.410	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.789	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.799	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2019 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	1/14/2020	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.490	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/2/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
3/9/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.640	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
6/8/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.810	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
9/21/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
11/30/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
3/1/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.710	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
6/21/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.660	<2.00</							

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-44 (continued)	3/16/2015	<10	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/26/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/14/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/16/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/21/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/23/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/27/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/9/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/23/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.510	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/27/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.310 J	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/21/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/13/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/15/2018	<5.00	<0.500	<1.50	<1.00	<0.250	<0.500	<0.200	<0.250	<0.200	<0.500	<1.00	<1.00	<0.200	<0.250	<0.200	<1.00	<0.500	<0.500	<0.500	<0.200	<0.500	<0.250
	6/28/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/4/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/4/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/4/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/13/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/2/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/9/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/8/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/21/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	11/30/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/1/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-45	8/19/2009	–	–	<5.0	–	–	–	<0.50	<0.50	<0.50	–	–	–	0.22 J	<0.50	0.11 J	<0.50	<0.50	–	–	<0.50	–	–
MW-49	8/19/2009	–	–	<5.0	–	–	–	<0.50	<0.50	1.21	–	–	–	29.6	<0.50	0.32 J	<0.50	<0.50	–	–	<0.50	–	–
	6/2/2010	–	–	<5.0	–	–	–	<0.50	<0.50	2.08	–	–	–	47.3	<0.50	0.28 J	<0.50	<0.50	–	–	<0.50	–	–
	11/30/2010	–	–	<5.0	–	–	–	<0.50	<0.50	1.82	–	–	–	31.4	<0.50	0.29 J	<0.50	<0.50	–	–	<0.50	–	–
	6/1/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	0.83	<1.0	<1.0	<1.0	14.5	<0.50	0.49	<0.50	<0.50	<1.0	<1.0			

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds
Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-49 (continued)	6/30/2015	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	0.430	<1.0	<2.0	<2.0	3.52	<0.500	0.280	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.88	<1.00	<2.00	<2.00	6.32	<0.500	0.54	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/22/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/6/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/27/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/27/2017 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/10/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/1/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
6/10/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
12/2/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
MW-50	11/29/2010	–	–	<5.0	–	–	–	<0.50	<0.50	0.13 J	–	–	–	0.14 J	<0.50	2.26	<0.50	<0.50	–	–	<0.50	–	–
	11/29/2010 DUP	–	–	<5.0	–	–	–	<0.50	<0.50	0.12 J	–	–	–	0.18 J	<0.50	2.34	<0.50	<0.50	–	–	<0.50	–	–
	12/13/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.50	<1.0	<2.0	<2.0	<0.50	<0.5	2.20	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5
	3/26/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	<0.09	<0.09	<1.0	<0.14	0.81 J	<0.50	1.50	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	1.72	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	1.41	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/17/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	0.690	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	–
	12/23/2014	<10	<1	<5	<2	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.5	<0.5	1.66	<2	<1	<1	<1	<0.5	<1.0	<0.5
	12/16/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.76	<0.500	1.25	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/9/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.320 J	<0.500	1.22	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/13/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	1.06	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.400	<0.500	0.850	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/13/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.400	<0.500	0.898	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/2/2020	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.890	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	11/30/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.755	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
11/28/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.660	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
MW-51	8/19/2009	–	–	<5.0	–	–	–	<0.50	<0.50	0.93	–	–	–	17.9	<0.50	0.97	<0.50	<0.50	–	–	<0.50	–	–
	12/7/2009	–	–	<5.0	–	–	–	<0.50	<0.50	0.53	–	–	–	2.3	<0.50	0.82	<0.50	<0.50	–	–	<0.50	–	–
	3/16/2010	–	–	<5.0	–	–	–	<0.50	<0.50	0.28 J	–	–	–	2.95	<0.50	0.37 J	<0.50	<0.50	–	–	<0.50	–	–
	6/2/2010	–	–	<5.0	–	–	–	<0.50	<0.50	0.67	–	–	–	21.3	<0.50	0.54	<0.50	<0.50	–	–	<0.50	–	–
	8/31/2010	–	–	<5.0	–	–	–	<0.50	<0.50	0.88	–	–	–	19.8	<0.50	0.48 J	<0.50						

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Napthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-51 (continued)	9/28/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	0.96	<0.50	1.14	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	0.89	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	3/22/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	2.35	<0.50	0.63	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/18/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	2.25	<1.0	0.77	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	9/9/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	2.34	<1.00	0.590	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/11/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.50	<1.00	<2.00	<2.00	1.08	<0.50	0.520	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/24/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.50	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/11/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	2.32	<0.50	0.530	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/19/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	1.17	<0.500	0.580	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/23/2014	<10	<1	<5	<2	<0.5	<1	<0.5	<0.5	<0.5	<1	<2	<2	<0.500	<0.5	<0.500	<2	<1	<1	<1	<0.5	<1.00	<0.5
	3/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.31	<1.00	<2.00	<2.00	1.31	<0.500	1.18	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/26/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	1.92	<0.500	1.03	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.250 J	<1.00	<2.00	<2.00	3.57	<0.500	0.970	<2.00	<1.00	<1.00	<1.00	1.10	<1.00	<0.500
	12/16/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/21/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/23/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.900	<1.00	<2.00	<2.00	5.17	<0.500	0.480	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/27/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.12	<1.00	<2.00	<2.00	4.95	<0.500	0.340	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/9/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.985	<1.00	<2.00	<2.00	3.71	<0.500	0.343 J	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/23/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.730	<1.00	<2.00	<2.00	3.47	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/27/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.42	<1.00	<2.00	<2.00	4.98	<0.500	0.350 J	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/21/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/13/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/15/2018	<5.00	<0.500	<1.50	<1.00	<0.250	<0.500	<0.200	<0.250	<0.200	<0.500	<1.00	<1.00	<0.200	<0.250	<0.200	<1.00	<0.500	<0.500	<0.500	<0.200	<0.500	<0.250
	6/28/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	1.05	<1.00	<2.00	<2.00	2.09	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/4/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	0.672	<1.00	<2.00	<2.00	1.85	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/6/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	0.420	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	0.639	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	1.00	<1.00	<2.00	<2.00	1.53	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/13/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.667	<1.00	<2.00	<2.00	0.546	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.718	<1.00	<2.00	<2.00	0.701	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/9/2020 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.950	<1.00	<2.00	<2.00	0.970	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2020 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	1.05	<1.00	<2.00	<2.00	1.05	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/2/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400															

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-51 (continued)	6/8/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.580	<1.00	<2.00	<2.00	0.630	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/8/2021 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.650	<1.00	<2.00	<2.00	0.600	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/21/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	11/30/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.460	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	11/30/2021 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.432	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/1/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/1/2022 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/21/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.470	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/21/2022 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	0.490	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	11/28/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	11/28/2022 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	5/31/2023	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-52	8/19/2009	-	-	<5.0	-	-	-	<0.50	<0.50	1.37	-	-	-	7.35	<0.50	0.33 J	<0.50	<0.50	-	-	<0.50	-	-
	12/7/2009	-	-	<5.0	-	-	-	<0.50	<0.50	2.64	-	-	-	17.9	<0.50	0.78	<0.50	<0.50	-	-	<0.50	-	-
	3/16/2010	-	-	<5.0	-	-	-	<0.50	<0.50	2.58	-	-	-	16.2	<0.50	0.71	<0.50	<0.50	-	-	<0.50	-	-
	3/16/2010 DUP	-	-	<10.0	-	-	-	<1.0	<1.0	2.46	-	-	-	15.6	<1.0	0.62 J	<1.0	<1.0	-	-	<1.0	-	-
	6/2/2010	-	-	<5.0	-	-	-	<0.50	<0.50	2.64	-	-	-	16.2	<0.50	0.81	<0.50	<0.50	-	-	<0.50	-	-
	8/31/2010	-	-	<5.0	-	-	-	<0.50	<0.50	3.7	-	-	-	14	<0.50	0.66	<0.50	<0.50	-	-	<0.50	-	-
	12/2/2010	-	-	<5.0	-	-	-	<0.50	<0.50	1.43	-	-	-	7.7	<0.50	0.44 J	<0.50	<0.50	-	-	<0.50	-	-
	6/2/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	1.69	<1.0	<2.0	<2.0	11.5	<0.5	0.64	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5
	9/15/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	2.76	<1.0	<2.0	<2.0	8.8	<0.5	0.52	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5
	12/13/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	1.64	<1.0	<2.0	<2.0	8.59	<0.5	0.71	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5
	3/29/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	1.30	<0.09	<1.0	<0.14	6.60	<0.50	0.74 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.25	<1.0	<2.0	<2.0	7.33	<0.50	0.81	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	9/28/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.01	<1.0	<2.0	<2.0	5.06	<0.50	0.95	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	3/22/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<5.0	<5.0	<0.50	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/18/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<2.0	<2.0	0.83	<1.0	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	9/9/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<1.00	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/12/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.50	<1.00	<2.00	<2.00	1.56	<0.50	<0.50	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/24/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	2.07	<0.50	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/11/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.860	<0.50	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/19/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/18/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	2.67	<1.00	<2.00	<2.00	3.69	<0.500	0.730	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.35	<1.00	<2.00	<2.00	0.26	<0.500	<0.500	<2.00	<1.00	<1.00				

Gunderson LLC—Portland, Oregon

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-62	1/20/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.290 J	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/22/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.360	<1.00	<2.00	<2.00	0.450	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/22/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.530	<1.00	<2.00	<2.00	1.44	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/22/16 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.580	<1.00	<2.00	<2.00	1.40	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/27/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.720	<1.00	<2.00	<2.00	0.530	<0.500	0.250	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/27/2016 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.780	<1.00	<2.00	<2.00	0.430	<0.500	0.260	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/7/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.264 J	<1.00	<2.00	<2.00	0.319 J	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/23/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/26/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/20/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/14/2018	<5.00	<0.500	<1.50	<1.00	<0.250	<0.500	<0.200	<0.250	<0.200	<0.500	<1.00	<1.00	<0.200	<0.250	<0.200	<1.00	<0.500	<0.500	<0.500	<0.200	<0.500	<0.250
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/5/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/5/2018 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/6/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/6/2019 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/17/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/10/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/1/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/9/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/8/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/21/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/21/2021 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/2/201	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/2/2021 DUP	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/2/2022	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-70	8/19/2009	-	-	<5.0	-	-	-	<0.50	<0.50	5.20	-	-	-	31.2	<0.50	0.4 J	<0.50	<0.50	-	-	<0.50	-	-
	3/16/2010	-	-	<5.0	-	-	-	<0.50	<0.50	7.79	-	-	-	34.4	<0.50	0.45 J	<0.50	<0.50	-	-	<0.50	-	-
	6/2/2010	-	-	<5.0	-	-	-	<0.50	<0.50	1.44	-	-	-	5.41	<0.50	0.08 J	<0.50	<0.50	-	-	<0.50	-	-
	8/31/2010	-	-	<5.0	-																		

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
MW-70 (continued)	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	6.00	<1.0	<2.0	<2.0	20.1	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	9/28/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.68	<1.0	<2.0	<2.0	7.85	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.37	<1.0	<2.0	<2.0	3.83	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	3/22/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	0.91	<1.0	<5.0	<5.0	1.74	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/18/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.35	<1.0	<2.0	<2.0	2.84	<1.0	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	9/9/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.770	<1.00	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/13/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.91	<1.00	<2.00	<2.00	3.68	<0.50	<0.50	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/24/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.04	<1.00	<2.00	<2.00	2.70	<0.50	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/11/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.860	<1.00	<2.00	<2.00	1.61	<0.50	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/19/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.850	<1.00	<2.00	<2.00	1.74	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/18/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.560	<1.00	<2.00	<2.00	0.810	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.01	<1.00	<2.00	<2.00	1.43	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/30/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.59	<1.00	<2.00	<2.00	1.10	<0.50	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/14/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.850	<1.00	<2.00	<2.00	1.20	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/17/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.602	<1.00	<2.00	<2.00	1.27	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/21/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.315	<1.00	<2.00	<2.00	1.37	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/22/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.280	<1.00	<2.00	<2.00	1.15	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/27/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.560	<1.00	<2.00	<2.00	1.57	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/6/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.431 J	<1.00	<2.00	<2.00	1.37	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/23/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.610	<1.00	<2.00	<2.00	3.03	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/27/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.430 J	<1.00	<2.00	<2.00	2.25	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/20/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	1.48	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	1.76	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/15/2018	<5.00	<0.500	<1.50	<1.00	<0.250	<0.500	<0.200	<0.250	0.274 J	<0.500	<1.00	<1.00	1.66	<0.250	<0.200	<1.00	<0.500	<0.500	<0.500	<0.200	<0.500	<0.250
	6/28/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	1.71	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/5/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	1.92	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	2.05	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	2.08	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/6/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	2.03	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	2.03	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	2.29	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	2.52	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2019 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	2.56	<								

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene	
		Concentrations in µg/L (ppb)																						
AREA 1																								
MW-71	6/2/2010	-	-	<10	-	-	-	<1.0	<1.0	2.96	-	-	-	68	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	-	-	
	11/30/2010	-	-	<10	-	-	-	<1.0	<1.0	4.0	-	-	-	84.8	<1.0	0.34 J	<1.0	<1.0	-	-	<1.0	-	-	
	6/1/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	0.76	<1.0	<1.0	<1.0	15.1	<0.50	0.55	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0	
	12/14/2011	<10	<2.0	0.46 J	<4.0	<2.0	<2.0	<1.0	<1.0	4.98	<2.0	<2.0	<2.0	33.8	<1.0	0.46 J	<1.0	<1.0	<2.0	<2.0	<1.0	<4.0	<2.0	
	3/26/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	1.70	<0.09	<1.0	<0.14	31.0	<0.50	0.20 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12	
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	0.91	<1.0	<2.0	<2.0	13.9	<0.50	0.55	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.02	<1.0	<2.0	<2.0	36.8	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	6/18/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.74	<1.0	<2.0	<2.0	18.2	<1.0	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	12/12/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.04	<1.0	<2.0	<2.0	15.0	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	6/11/2014	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.24	<1.0	<2.0	<2.0	12.2	<0.50	0.51	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50	
	7/6/2015	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	<0.50	2.53	<1.0	<2.0	<2.0	10.8	<0.50	0.34	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/17/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	1.38	<1.00	<2.00	<2.00	6.03	<0.500	<0.500	<2.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	6/21/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	4.12	<1.00	<2.00	<2.00	7.84	<0.500	0.31	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/6/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	2.31	<1.00	<2.00	<2.00	7.31	<0.500	<0.500	<2.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	6/27/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	0.641	<1.00	<2.00	<2.00	3.88	<0.500	<0.500	<2.00	<1.00	<1.00	<0.500	<1.00	<0.500	
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	3.79	<1.00	<2.00	<2.00	3.65	<0.500	0.436	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	3.58	<1.00	<2.00	<2.00	3.30	<0.500	0.436	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	1.92	<1.00	<2.00	<2.00	1.14	<0.500	<0.400	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/19/2018 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	2.10	<1.00	<2.00	<2.00	1.08	<0.500	<0.400	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	6/19/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	3.15	<1.00	<2.00	<2.00	2.04	<0.500	<0.400	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/12/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	2.35	<1.00	<2.00	<2.00	1.13	<0.500	<0.400	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	6/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	1.15	<1.00	<2.00	<2.00	0.595	<0.500	<0.400	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/1/2020	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	2.84	<1.00	<2.00	<2.00	0.783	<0.500	<0.400	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	6/10/2021	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	1.09	<1.00	<2.00	<2.00	0.550	<0.500	<0.400	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
	12/2/2021	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.500	2.40	<1.00	<2.00	<2.00	0.731	<0.500	<0.400	<2.00	<1.00	<1.00	<0.400	<1.00	<0.500	
WEX-60	12/8/2009	-	-	<5.0	-	-	-	<0.50	<0.50	<0.50	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	-	-	
	3/16/2010	-	-	<10.0	-	-	-	<1.0	<1.0	3.16	-	-	-	46.2	<1.0	0.42 J	<1.0	<1.0	-	-	<1.0	-	-	
	6/2/2010	-	-	<10.0	-	-	-	<1.0	<1.0	3.14	-	-	-	43.3	<1.0	0.24 J	<1.0	<1.0	-	-	<1.0	-	-	
	8/31/2010	-	-	<5.0	-	-	-	<0.50	<0.50	2.86	-	-	-	35.8	<0.50	0.41 J	<0.50	<0.50	-	-	<0.50	-	-	
	11/31/2010	-	-	<10.0	-	-	-	<1.0	<1.0	3.0	-	-	-	36.2	<1.0	0.36 J	<1.0	<1.0	-	-	<1.0	-	-	
	11/31/2010 DUP	-	-	<10.0	-	-	-	<1.0	<1.0	3.04	-	-	-	36.0	<1.0	0.36 J	<1.0	<1.0	-	-	<1.0	-	-	
	6/1/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	1.69	<1.0	<1.0	<1.0	12.2	<0.50	0.64	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0	
	6/1/2011 DUP	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	10.8	<1.0	<1.0	<1.0	58.2	<0.50	0.44 J	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0	
	9/15/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	1.93	<1.0	<1.0	<1.0	17.0	<0.50	0.65	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0	
	9/15/2011 DUP	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	1.97	<1.0	<1.0	<1.0	16.5	<0.50	0.72	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0	
	12/13/2011	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<0.50	<0.50	2.37	<1.0	<1.0	<1.0	21.5	<0.50	0.68	<0.50	<0.50	<1.0	<1.0	<0.50	<2.0	<1.0	
	3/29/2012	<1.0	<0.09	<0.12	<1.0	<0.09	<0.09	<0.10	<0.12	1.60	<0.09	<1.0	<0.14	13.0	<0.50	0.60 J	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12	
	7/5/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.52	<1.0	<2.0	<2.0	6.94	<0.50	0.86	<2.0	<1.0	<1.0	<0.50	<1.0	<0.50		
	7/5/2012 DUP	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.56	<1.0	<2.0	<2.0	6.89	<0.50	0.90	<2.0	<1.0	<1.0	<0.50	<1.0	<0.50		
	9/28/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.63	<1.0	<2.0	<2.0	13.0	<0.50	0.62	<2.0	<1.0	<1.0	<0.50	<1.0	<0.50		
	9/28/12 DUP	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.44	<1.0	<2.0	<2.0	12.3	<0.50	0.55	<2.0	<1.0	<1.0	<0.50	<1.0	<0.50		
ROD Cleanup Level ⁵		NA	NA	NA	12	NA	NA	NA	NA	0.24	9.8	NA	NA	NA	NA	0.6	NA	NA	NA	NA	0.022	13		
JSCS SLV ⁶		170	37	8.9	0.2	NA	100	2.5	0.33	0.12	9.8	NA	8.2	11	1.2	0.17	1,300	0.0095	NA	NA	0.015	1.8	13.0	

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 1																							
WEX-60 (continued)	12/4/2012	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.03	<1.0	<2.0	<2.0	11.2	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	12/4/2012 DUP	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.49	<1.0	<2.0	<2.0	11.3	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	3/22/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.11	<1.0	<5.0	<5.0	14.1	<0.50	0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	3/22/2013 DUP	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	2.14	<1.0	<5.0	<5.0	14.2	<0.50	<0.50	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/18/2013	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.87	<1.0	<2.0	<2.0	7.09	<1.0	0.54	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	6/18/2013 DUP	<10.0	<1.0	<5.0	<2.0	<0.50	<1.0	<0.50	<0.50	1.96	<1.0	<2.0	<2.0	7.06	<1.0	0.56	<2.0	<1.0	<1.0	<1.0	<0.50	<1.0	<0.50
	9/9/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	2.03	<1.00	<2.00	<2.00	11.1	<1.00	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/11/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	2.02	<1.00	<2.00	<2.00	9.62	<0.50	<0.50	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/12/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.98	<1.00	<2.00	<2.00	9.73	<0.50	<0.50	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/24/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.48	<1.00	<2.00	<2.00	7.32	<0.50	0.550	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/24/2014 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.52	<1.00	<2.00	<2.00	7.53	<0.50	0.540	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/11/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.47	<1.00	<2.00	<2.00	5.15	<0.50	0.750	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/11/2014 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	1.50	<1.00	<2.00	<2.00	5.63	<0.50	0.870	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/11/2014 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	10/29/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.900	<1.00	<2.00	<2.00	5.66	<0.500	0.290 J	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	10/29/2014 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.650	<1.00	<2.00	<2.00	4.82	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/18/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.460 J	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/18/2014 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.520	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/15/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.43	<1.00	<2.00	<2.00	2.32	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/30/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.590	<1.00	<2.00	<2.00	3.79	<0.500	0.280 J	<2.00	<1.00	<1.00	<1.00	1.37	<1.00	<0.500
	6/30/15 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.690	<1.00	<2.00	<2.00	4.39	<0.500	0.320 J	<2.00	<1.00	<1.00	<1.00	1.34	<1.00	<0.500
	6/30/15 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	0.720	<1.00	<2.00	<2.00	4.45	<0.500	0.310 J	<2.00	<1.00	<1.00	<1.00	1.41	<1.00	<0.500
	9/14/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	0.400 J	<0.500	0.300 J	<2.00	<1.00	<1.00	<1.00	0.850	<1.00	<0.500
	1/20/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/22/2016	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/22/2016 DUP	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/22/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/27/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/7/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/7/2016 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/22/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	3/22/2017 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	6/29/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	9/20/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/20/2017 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2017 DUP	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
ROD Cleanup Level ⁵		NA	NA	NA	12	NA	NA	NA	NA	0.24	9.8	NA	NA	NA	NA	0.6	NA	NA	NA	NA	0.022	13	
JSCS SLV ⁶		170	37	8.9	0.2	NA	100	2.5	0.33	0.12	9.8	NA	8.2	11	1.2	0.17	1,300	0.0095	NA	NA	0.015	1.8	13.0

Please refer to notes at end of table.

Gunderson LLC—Portland, Oregon

Please refer to notes at end of table.

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Gunderson LLC—Portland, Oregon

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Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
AREA 2																							
MW-92	7/2/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/12/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/11/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
SMW-12	12/1/2010	–	–	<5.0	–	–	–	<0.50	<0.50	<0.50	–	–	–	<0.50	<0.50	7.92	<0.50	<0.50	–	–	<0.50	–	–
	12/15/2011	<1.0	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<2.0	<2.0	<0.5	<0.5	0.83	<2.0	<1.0	<1.0	<1.0	<5.0	<1.0	<0.5
	3/27/2012	<1.0	0.11 J	<0.12	<1.0	<0.09	<0.09	<1.0	<0.12	–	<0.09	<1.0	<0.14	<0.1	<0.5	12.0	<0.11	<1.0	<0.07	<0.09	<0.09	<0.19	<0.12
	7/6/2012	<10	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<2.0	<2.0	<0.5	<0.5	4.78	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<0.5
	7/6/2012 DUP	<10	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<2.0	<2.0	<0.5	<0.5	4.76	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<0.5
	12/5/2012	<10	<1.0	<5.0	<2.0	<0.5	<1.0	<0.5	<0.5	<0.5	<1.0	<2.0	<2.0	<0.5	<0.5	17.4	<2.0	<1.0	<1.0	<1.0	<0.5	<1.0	<0.5
	12/16/2013	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	2.90	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/22/2014	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	16.2	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/17/2015	<10.0	<1.00	<5.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	8.74	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
	12/9/2016	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.500	<0.500	<0.500	<1.00	<2.00	<2.00	<0.500	<0.500	<0.500	<2.00	<1.00	<1.00	<1.00	<0.500	<1.00	<0.500
12/13/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500	
SMW-14	12/7/2009	<5.0	0.28 J	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
SMW-18	12/7/2009	<5.0	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
SCHNITZER ASD YARD																							
MW-10	12/14/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/18/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/4/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-14	1/21/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/5/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/20/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/11/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/10/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-73	Well decommissioned in January 2022																						
	12/14/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/18/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	0.530
	3/5/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<></										

Please refer to notes at end of table.

Table E-1
Historical Groundwater Analytical Results—Volatile Organic Compounds

Gunderson LLC—Portland, Oregon

Well ID	Sample Date	4-Methyl-2-pentanone (MIBK)	Methyl tert-butyl ether (MTBE)	Methylene chloride	Naphthalene	n-Propylbenzene	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene (PCE)	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m,p-Xylene	o-Xylene
		Concentrations in µg/L (ppb)																					
SCHNITZER ASD YARD																							
MW-76	12/14/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/5/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-77	12/14/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/19/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/4/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-79	12/14/2017	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/27/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/18/2018	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/4/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-86	7/2/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	3.06	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/13/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/12/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-87	7/2/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/11/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/12/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-88	7/2/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/13/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/12/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/11/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
MW-89	7/2/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/10/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	12/16/2019	<10.0	<1.00	<3.00	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	3/18/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	6/11/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
	9/9/2020	<10.0	<1.00	<10.0	<2.00	<0.500	<1.00	<0.400	<0.500	<0.400	<1.00	<2.00	<2.00	<0.400	<0.500	<0.400	<2.00	<1.00	<1.00	<1.00	<0.400	<1.00	<0.500
ROD Cleanup Level ⁵		NA	NA	NA	12	NA	NA	NA	NA	0.24	9.8	NA	NA	NA	NA	0.6	NA	NA	NA	NA	0.022	13	13.0
JSCS SLV ⁶		170	37	8.9	0.2	NA	100	2.5	0.33	0.12	9.8	NA	8.2	11	1.2	0.17	1,300	0.0095	NA	NA	0.015	1.8	

Notes:

1. Volatile Organic Compound (VOC) analysis by EPA Method 8260B.
2. – = Not analyzed or not applicable.
3. µg/L (ppb) = micrograms per liter (parts per billion).
4. Bold denotes analyte detected above laboratory reporting limit.
5. ROD Cleanup Levels from U.S. EPA Errata #2 for the Record of Decision Table 17 for Portland Harbor Superfund Site, Portland, Oregon, January 2020. The level shown is the Groundwater Cleanup Level unless one was not available, in which case the Surface Water Cleanup Level was used, per DEQ Guidance.
6. JSCS SLV = Screening Level Values from Portland Harbor Joint Source Control Strategy (JSCS), December 2005.

7. J = concentration is less than the laboratory reporting limit but greater than the laboratory detection limit. The reported value is an estimate.
8. Shading denotes analyte detected above screening criteria. As instructed by DEQ, concentrations of analytes were compared to the Portland Harbor Cleanup Level. If neither a Groundwater or Surface Water Cleanup Level was available, the data were compared to the Joint Source Control Strategy Screening Level Value.
9. R = Data are rejected. Detected concentration a result of laboratory-based contamination. As a result of the rejection of this data, detections are not bolded or shaded.
10. NA = Cleanup Level and SLV not available for this analyte.
11. < = constituent was not detected at a concentration greater than laboratory method reporting limit shown.
12. Q-54 = Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D.
13. J1 = The relative percent difference between the primary and field duplicate samples exceeded quality control limits. The associated results are estimated.

Table E-2

Historical Groundwater Analytical Results—Petroleum Hydrocarbons

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
AREA 1			
MW-52	1/21/2019	<0.190	<0.381
	3/5/2019	<0.187	<0.374
	6/19/2019	<0.189	<0.377
	9/10/2019	<0.189	<0.377
	12/10/2019	<0.187	<0.374
	3/17/2020	<0.189	<0.377
	6/10/2020	<0.189	<0.377
	9/10/2020	<0.189	<0.377
	12/1/2020	<0.200	<0.400
	3/10/2021	<0.189	<0.377
	6/10/2021	<0.187	<0.374
	9/23/2021	<0.190	<0.381
	9/23/2021 DUP	<0.190	<0.381
	12/2/2021	<0.189	<0.377
	3/2/2022	<0.187	<0.374
MW-62	1/20/2015	<0.238	<0.476
	3/22/2016	<0.238	<0.476
	6/22/2016	<0.238	<0.476
	6/22/16 DUP	<0.238	<0.476
	9/27/2016	<0.190	0.401
	9/27/2016 DUP	<0.190	0.443
	12/7/2016	<0.187	0.211 J
	3/23/2017	<0.187	<0.187
	6/26/2017	<0.185	<0.370
	9/20/2017	<0.189	<0.377
	12/12/2017	<0.189	<0.377
	3/14/2018	<0.189	<0.377
	6/27/2018	<0.187	<0.374
	9/5/2018	<0.187	<0.374
	12/19/2018	<0.187	<0.374
	3/6/2019	<0.189	<0.377
	6/19/2019	<0.190	<0.381
	9/10/2019	<0.189	<0.377
	12/10/2019	<0.187	<0.374
	3/17/2020	<0.190	<0.381
	6/10/2020	<0.189	<0.377
	9/10/2020	<0.189	<0.377
	12/1/2020	<0.194	<0.388
	3/9/2021	<0.189	<0.377
	6/8/2021	<0.189	<0.377
	9/21/2021	<0.187	<0.374
	12/2/2021	<0.189	<0.377
	3/2/2022	<0.187	<0.374
ROD Cleanup Level ^{9.}		NA	NA
JSCS SLV ^{10.}		NA	NA

Please refer to notes at end of table.

Table E-2

Historical Groundwater Analytical Results—Petroleum Hydrocarbons

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
AREA 1			
WEX-60	12/8/2009	0.0182 J	<0.481
	3/16/2010	—	—
	6/2/2010	—	—
	8/31/2010	—	—
	11/31/2010	0.0832 J	<0.476
	11/31/2010 DUP	0.0815 J	<0.476
	6/1/2011	0.0366	<0.50
	6/1/2011 DUP	—	—
	9/15/2011	<0.098	<0.49
	9/15/2011 DUP	0.0416 J	<0.481
	12/13/2011	0.0671	<0.49
	3/29/2012	0.065 JZ	<0.038
	7/5/2012	<0.234	<0.467
	7/5/2012 DUP	<0.234	<0.467
	9/28/2012	<0.187	<0.374
	9/28/12 DUP	<0.187	<0.374
	12/4/2012	<0.187	<0.374
	12/4/2012 DUP	<0.187	<0.374
	3/22/2013	<0.189	<0.377
	3/22/2013 DUP	<0.187	<0.374
	6/18/2013	<0.194	<0.388
	6/18/2013 DUP	<0.192	<0.385
	9/9/2013	<0.238	<0.476
	12/11/2013	<0.245	<0.490
	12/12/2013	<0.240	<0.481
	3/24/2014	<0.236	<0.472
	3/24/2014 DUP	<0.236	<0.472
	6/11/2014	<0.236	<0.472
	6/11/2014 DUP	<0.236	<0.472
	6/11/2014 DUP	<0.236	<0.472
	10/29/2014	0.131 J	<0.385
	10/29/2014 DUP	0.102 J	<0.392
	12/18/2014	<0.236	<0.472
12/18/2014 DUP	<0.236	<0.472	
3/15/2015	<0.260	<0.521	
ROD Cleanup Level ⁹ .		NA	NA
JSCS SLV ¹⁰ .		NA	NA

Please refer to notes at end of table.

Table E-2**Historical Groundwater Analytical Results—Petroleum Hydrocarbons**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
AREA 1			
WEX-60 (continued)	6/30/2015	<0.0943	<0.189
	6/30/2015 DUP	—	--
	6/30/2015 DUP	—	--
	9/14/2015	<0.248	<0.495
	1/20/2016	<0.238	<0.476
	3/22/2016	<0.238	<0.476
	3/22/2016 DUP	<0.238	<0.476
	6/22/2016	—	--
	9/27/2016	—	--
	12/7/2016	<0.187	0.202 J
	12/7/2016 DUP	<0.187	<0.374
	3/22/2017	<0.187	<0.374
	3/22/2017 DUP	<0.189	<0.377
	6/29/2017	<0.187	<0.374
	9/20/2017	<0.187	<0.374
	9/20/2017 DUP	<0.189	0.469
	12/12/2017	<0.187	<0.374
	12/12/2017 DUP	<0.187	<0.374
	3/14/2018	<0.189	<0.377
	3/14/2018 DUP	<0.189	<0.377
	6/27/2018	<0.187	0.890
	6/27/2018 DUP	<0.187	<0.374
	9/4/2018	<0.185	<0.370
	9/4/2018 DUP	<0.185	<0.370
	12/19/2018	<0.189	<0.377
	3/6/2019	<0.200	<0.400
	3/6/2019 DUP	<0.189	<0.377
	6/21/2019	<0.189	<0.377
	6/21/2019 DUP	<0.190	<0.381
	9/10/2019	<0.189	<0.377
	9/10/2019 DUP	<0.189	<0.377
	12/12/2019	<0.194	<0.388
	12/12/2019 DUP	<0.187	<0.374
	3/18/2020	<0.194	<0.388
	6/11/2020	<0.190	<0.381
	9/11/2020	<0.194	<0.388
ROD Cleanup Level ^{9.}		NA	NA
JSCS SLV ^{10.}		NA	NA

Please refer to notes at end of table.

Table E-2

Historical Groundwater Analytical Results—Petroleum Hydrocarbons

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
AREA 1			
MW-90	7/2/2019	<0.187	<0.374
	9/10/2019	<0.187	<0.374
	12/12/2019	<0.187	<0.374
	3/17/2020	<0.190	<0.381
	6/9/2020	<0.189	<0.377
	9/9/2020	<0.189	<0.377
	12/1/2020	<0.189	<0.377
	6/8/2021	<0.190	<0.381
	9/22/2021	<0.190	<0.381
	12/2/2021	<0.189	<0.377
	3/2/2022	<0.187	<0.374
MW-91	7/2/2019	<0.189	<0.377
	9/10/2019	<0.192	<0.385
	12/12/2019	<0.190	<0.381
	3/17/2020	<0.187	<0.374
	6/10/2020	<0.189	<0.377
	9/10/2020	<0.189	<0.377
	12/1/2020	<0.192	<0.385
	3/11/2021	<0.189	<0.377
	6/10/2021	<0.189	<0.377
	9/23/2021	<0.190	<0.381
	12/2/2021	<0.189	<0.377
	3/3/2022	<0.187	<0.374
AREA 2			
MW-17	1/21/2019	<0.187	<0.374
	3/6/2019	<0.187	<0.374
	6/19/2019	<0.187	<0.374
	9/10/2019	<0.189	<0.377
	12/16/2019	<0.192	<0.385
	12/16/2019 DUP	<0.190	<0.381
	3/18/2020	<0.187	<0.374
	3/18/2020 DUP	<0.187	<0.374
	6/11/2020	<0.189	<0.377
	6/11/2020 DUP	<0.187	<0.374
	9/11/2020	<0.189	<0.377
	9/11/2020 DUP	<0.189	<0.377
	12/3/2020	<0.200	<0.400
	12/3/2020 DUP	<0.200	<0.400
	3/10/2021	<0.192	<0.385
	3/10/2021 DUP	<0.190	<0.381
	6/9/2021	<0.189	<0.377
	6/9/2021 DUP	<0.189	<0.377
	9/21/2021	<0.189	<0.377
	9/21/2021 DUP	<0.189	<0.377
	12/1/2021	<0.190	<0.381
	12/1/2021 DUP	<0.189	<0.377
	3/1/2022	<0.189	<0.377
ROD Cleanup Level ⁹ .		NA	NA
JSCS SLV ¹⁰ .		NA	NA

Please refer to notes at end of table.

Table E-2**Historical Groundwater Analytical Results—Petroleum Hydrocarbons**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
AREA 2			
MW-31	1/21/2019	<0.190	<0.381
MW-66	1/21/2019	<0.189	<0.377
MW-82	7/2/2019	<0.189	<0.377
	9/10/2019	<0.189	<0.377
	12/12/2019	<0.190	<0.381
	3/17/2020	<0.187	<0.374
	6/10/2020	<0.189	<0.377
	9/9/2020	<0.189	<0.377
	12/1/2020	<0.187	<0.374
	3/10/2021	<0.189	<0.377
	6/9/2021	<0.192	<0.385
	9/22/2021	<0.190	<0.381
	12/1/2021	<0.190	<0.381
	3/2/2022	<0.187	<0.374
MW-83	7/2/2019	<0.187	<0.374
	9/11/2019	<0.189	<0.377
	12/12/2019	<0.190	<0.381
	3/18/2020	<0.192	<0.385
	6/11/2020	<0.187	<0.374
	9/9/2020	<0.189	<0.377
	12/1/2020	<0.189	<0.377
	3/10/2021	<0.190	<0.381
	6/9/2021	<0.190	<0.381
	9/22/2021	<0.189	<0.377
	12/1/2021	<0.190	<0.381
	3/1/2022	<0.189	<0.377
MW-84	7/2/2019	<0.189	<0.377
	9/10/2019	<0.187	<0.374
	12/16/2019	<0.190	<0.381
	3/18/2020	<0.189	<0.377
	6/10/2020	<0.189	<0.377
	9/10/2020	<0.189	<0.377
	12/1/2020	<0.189	<0.377
	3/9/2021	<0.187	<0.374
	6/9/2021	<0.190	<0.381
	9/23/2021	<0.190	<0.381
	12/1/2021	<0.189	<0.377
	3/2/2022	<0.187	<0.374
ROD Cleanup Level ⁹ .		NA	NA
JSCS SLV ¹⁰ .		NA	NA

Please refer to notes at end of table.

Table E-2**Historical Groundwater Analytical Results—Petroleum Hydrocarbons**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
AREA 2			
MW-85	7/2/2019	<0.187	<0.374
	9/11/2019	<0.189	<0.377
	12/12/2019	<0.190	<0.381
	3/18/2020	<0.192	<0.385
	6/11/2020	<0.189	<0.377
	9/11/2020	<0.189	<0.377
	12/3/2020	<0.196	<0.392
	3/10/2021	<0.187	<0.374
	6/9/2021	<0.189	<0.377
	9/22/2021	<0.187	<0.374
	12/1/2021	<0.189	<0.377
	3/1/2022	<0.190	<0.381
MW-92	7/2/2019	<0.189	<0.377
	9/10/2019	<0.196	<0.392
	12/12/2019	<0.187	<0.374
	3/18/2020	<0.196	<0.392
	6/11/2020	<0.189	<0.377
	9/11/2020	<0.187	<0.374
	12/3/2020	<0.190	<0.381
	3/10/2021	<0.190	<0.381
	6/9/2021	<0.190	<0.381
	9/22/2021	<0.189	<0.377
	12/1/2021	<0.189	<0.377
	3/1/2022	<0.190	<0.381
SCHNITZER ASD YARD			
MW-10	8/20/2009	1.04	1.17
	6/3/2010	1.41	1.18
	12/1/2010	1.52	1.51
	6/3/2011	1.56	0.775
	12/15/2011	0.717	0.474
	3/28/2012	3.6	1.9
	7/6/2012	<0.238	<0.476
	12/5/2012	0.953	1.19
	6/19/2013	<0.190	1.66
	12/13/2013	<0.238	<0.476
	6/11/2014	0.453	<0.476
	12/19/2014	<0.236	3.83
	12/18/2015	0.112 J	<0.385
	6/21/2016	<0.240	<0.481
	12/12/2016	1.97 F-11	<0.374
	6/28/2017	<0.185	<0.370
	6/28/2017 DUP	<0.185	<0.370
	12/14/2017	<0.187	<0.374
	6/26/2018	<0.187	<0.374
	12/18/2018	<0.189	<0.377
	6/21/2019	<0.187	<0.374
	12/10/2019	<0.187	<0.374
	6/11/2020	<0.187	<0.374
ROD Cleanup Level ⁹ .		NA	NA
JSCS SLV ¹⁰ .		NA	NA

Please refer to notes at end of table.

Table E-2**Historical Groundwater Analytical Results—Petroleum Hydrocarbons**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
SCHNITZER ASD YARD			
MW-11	12/1/2010	0.0858 J	0.0651 J
	12/15/2011	0.13	0.116 J
	3/29/2012	0.12	0.083 J
	7/6/2012	<0.236	<0.472
	12/5/2012	<0.189	<0.377
	12/13/2013	<0.238	<0.476
	12/19/2014	<0.236	<0.472
	12/16/2015	<0.189	<0.377
	12/7/2016	<0.187	<0.374
	12/14/2017	<0.213	<0.426
	12/17/2018	<0.187	<0.374
	12/11/2019	<0.194	<0.388
MW-14	1/21/2019	<0.189	<0.377
	3/5/2019	<0.189	<0.377
	6/20/2019	<0.189	<0.377
	9/11/2019	<0.185	<0.370
	12/11/2019	<0.200	<0.400
	3/18/2020	<0.189	<0.377
	6/10/2020	<0.189	<0.377
	9/9/2020	<0.189	<0.377
	12/3/2020	<0.189	<0.377
	3/11/2021	<0.189	<0.377
	6/8/2021	<0.192	<0.385
	Well decommissioned in January 2022		
MW-72	12/2/2010	1.11	0.55
	12/2/2010 DUP	1.04	0.481
	6/2/2011	0.327	0.0508 J
	12/15/2011	0.261	0.0654 J
	12/15/2011 DUP	0.319	0.101 J
	3/29/2012	0.52	0.13 J
	3/29/2012 DUP	0.58	0.18 J
	7/6/2012	<0.236	<0.472
	7/6/2012 DUP	<0.234	<0.467
	12/5/2012	0.410	<0.374
	12/5/2012 DUP	0.411	<0.374
	6/19/2013	0.408	<0.381
	12/13/2013	<0.238	<0.476
	12/13/2013 DUP	<0.238	<0.476
	6/11/2014	<0.236	<0.472
	12/19/2014	<0.236	<0.472
	12/19/2014 DUP	<0.236	<0.472
	6/26/2015	0.389	<0.377
	12/16/2015	<0.189	<0.377
	12/16/2015 DUP	0.116 J	<0.377
	6/21/2016	<0.238	<0.476
ROD Cleanup Level ^{9.}		NA	NA
JSCS SLV ^{10.}		NA	NA

Please refer to notes at end of table.

Table E-2**Historical Groundwater Analytical Results—Petroleum Hydrocarbons**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
SCHNITZER ASD YARD			
MW-72 (cont)	6/21/2016 DUP	<0.238	<0.476
	12/7/2016	0.421 F-11	<0.374
	12/7/2016 DUP	0.369 F-11	<0.374
	6/28/2017	<0.189	<0.377
	12/14/2017	<0.187	<0.374
	12/14/2017 DUP	<0.187	<0.374
	6/26/2018	<0.187	<0.374
	12/18/2018	<0.187	<0.374
	6/21/2019	<0.189	<0.377
	12/13/2019	<0.190	<0.381
	12/13/2019 DUP	<0.189	<0.377
	6/12/2020	<0.187	<0.374
MW-73	8/20/2009	1.16	1.78
	12/8/2009	1.59	2.48
	6/3/2010	2.51	3.71
	6/3/2010 DUP	2.28	3.18
	12/2/2010	1.88	2.01
	6/3/2011	2.95	0.667
	12/16/2011	1.19	0.898
	3/28/2012	3.1	0.6
	7/25/2012	0.463	<0.467
	12/5/2012	4.49	0.603
	6/19/2013	1.84	<0.381
	12/16/2013	1.21	<0.476
	6/12/2014	0.630	0.694
	12/19/2014	0.157 J	<0.236
	6/26/2015	1.680	<0.189
	12/18/2015	0.241	<0.385
	6/23/2016	<0.238	<0.476
	12/12/2016	4.49 F-13	<0.374
	6/28/2017	<0.187	0.272 J
	12/14/2017	0.254 F-13	<0.381
	6/27/2018	<0.187	<0.374
	12/18/2018	0.191 F-13	<0.377
	12/18/2018 DUP	<0.189	<0.377
	6/20/2019	<0.189	<0.377
	12/11/2019	<0.204	<0.408
	6/12/2020	<0.187	<0.374
ROD Cleanup Level ^{9.}		NA	NA
JSCS SLV ^{10.}		NA	NA

Please refer to notes at end of table.

Table E-2**Historical Groundwater Analytical Results—Petroleum Hydrocarbons**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
SCHNITZER ASD YARD			
MW-74	6/3/2010	1.05	1.39
	12/2/2010	1.51	0.916
	6/3/2011	0.392	0.325
	12/16/2011	0.701	0.277 J
	3/28/2012	0.32	0.21 J
	7/6/2012	<0.236	<0.472
	12/5/2012	0.455	<0.388
	6/19/2013	0.485	<0.381
	12/16/2013	<0.243	<0.485
	6/12/2014	<0.236	<0.472
	12/22/2014	<0.236	<0.472
	12/16/2015	<0.189	<0.377
	6/22/2016	<0.238	<0.476
	12/9/2016	0.384 F-11	<0.374
	6/28/2017	<0.185	<0.370
	12/14/2017	<0.187	<0.374
	6/27/2018	<0.190	<0.381
	12/19/2018	<0.187	<0.374
	6/20/2019	<0.190	<0.381
	12/13/2019	<0.192	<0.385
	6/10/2020	<0.189	<0.377
MW-77	8/20/2009	0.666	0.314 J
	12/8/2009	0.668	0.318 J
	6/3/2010	0.444	0.196 J
	12/2/2010	1.39	0.668
	6/3/2011	0.62	0.237
	12/16/2011	0.561	0.166 J
	3/28/2012	0.18	0.10 J
	7/6/2012	<0.236	<0.472
	12/5/2012	0.947	<0.374
	6/19/2013	0.598	<0.381
	6/12/2014	<0.238	<0.476
	12/19/2014	<0.236	<0.472
	12/18/2015	0.577	<0.377
	6/21/2016	<0.236	<0.472
	12/12/2016	1.56 F-11	<0.374
	6/28/2017	<0.185	<0.370
	12/14/2017	<0.187	<0.374
	6/26/2018	<0.187	<0.374
	12/19/2018	<0.187	<0.374
	6/20/2019	<0.190	<0.381
	12/10/2019	<0.190	<0.381
6/11/2020	<0.187	<0.374	
ROD Cleanup Level ⁹ .		NA	NA
JSCS SLV ¹⁰ .		NA	NA

Please refer to notes at end of table.

Table E-2**Historical Groundwater Analytical Results—Petroleum Hydrocarbons**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
SCHNITZER ASD YARD			
MW-78	8/20/2009	0.495	0.458 J
	12/8/2009	0.956	1.25
MW-79	8/20/2009	1.28	1.35
	8/20/2009 DUP	2.08	2.78
	12/8/2009	1.35	1.59
	12/8/2009 DUP	1.58	1.98
	6/3/2010	1.53	2.33
	12/1/2010	1.7	1.53
	6/2/2011	0.819	0.704
	6/2/2011 DUP	0.853	0.732
	12/16/2011	0.688	0.432 J
	3/28/2012	1.2	2.4
	7/6/2012	<0.234	<0.467
	12/5/2012	0.241	<0.374
	6/19/2013	<0.189	0.710
	12/13/2013	<0.238	<0.476
	6/12/2014	<0.236	<0.472
	12/19/2014	<0.236	<0.472
	6/26/2015	0.363	<0.189
	12/18/2015	0.248	<0.377
	6/23/2016	<0.238	<0.476
	12/12/2016	0.495 F-11	<0.377
	6/28/2017	<0.187	0.261 J
	12/14/2017	<0.189	<0.377
	6/26/2018	<0.187	<0.374
	12/18/2018	<0.189	<0.377
	6/20/2019	<0.189	<0.377
	12/10/2019	<0.189	<0.377
	6/11/2020	<0.187	<0.374
MW-86	7/2/2019	<0.192	<0.385
	7/2/2019 DUP	<0.187	<0.374
	9/10/2019	<0.189	<0.377
	9/10/2019 DUP	<0.187	<0.374
	12/13/2019	<0.187	<0.374
	3/18/2020	<0.187	<0.374
	6/12/2020	<0.187	<0.374
	9/9/2020	<0.189	<0.377
	12/3/2020	<0.190	<0.381
	3/11/2021	<0.190	<0.381
	6/8/2021	<0.200	<0.400
	9/22/2021	<0.190	<0.381
	11/30/2021	<0.190	<0.381
	3/1/2022	<0.189	<0.377
ROD Cleanup Level ⁹ .		NA	NA
JSCS SLV ¹⁰ .		NA	NA

Please refer to notes at end of table.

Table E-2

Historical Groundwater Analytical Results—Petroleum Hydrocarbons

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
SCHNITZER ASD YARD			
MW-87	7/2/2019	<0.189	<0.377
	9/11/2019	<0.189	<0.377
	12/11/2019	<0.200	<0.400
	3/18/2020	<0.192	<0.385
	6/12/2020	<0.189	<0.377
	9/9/2020	<0.189	<0.377
	12/2/2020	<0.189	<0.377
	3/11/2021	<0.189	<0.377
	6/8/2021	<0.190	<0.381
	9/23/2021	<0.190	<0.381
	12/1/2021	<0.189	<0.377
	3/1/2022	<0.190	<0.381
MW-88	7/2/2019	<0.187	<0.374
	9/11/2019	<0.190	<0.381
	12/13/2019	<0.190	<0.381
	3/18/2020	<0.187	<0.374
	6/12/2020	<0.187	<0.374
	9/11/2020	<0.189	<0.377
	12/3/2020	<0.192	<0.385
	3/11/2021	<0.187	<0.374
	6/11/2021	<0.189	<0.377
	9/23/2021	<0.189	<0.377
	11/30/2021	<0.211	<0.421
	11/30/2021 DUP	<0.190	<0.381
	3/2/2022	<0.189	<0.377

Please refer to notes at end of table.

Table E-2

Historical Groundwater Analytical Results—Petroleum Hydrocarbons

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	TPH-Diesel	TPH-Oil
		Concentrations in mg/L (ppm)	
SCHNITZER ASD YARD			
MW-89	7/2/2019	<0.189	0.434
	9/10/2019	<0.190	<0.381
	12/16/2019	<0.190	<0.381
	3/18/2020	<0.189	<0.377
	6/11/2020	<0.187	<0.374
	9/9/2020	<0.189	<0.377
	12/1/2020	<0.189	<0.377
	3/11/2021	<0.189	<0.377
	6/11/2021	<0.187	<0.374
	9/22/2021	<0.189	<0.377
	12/1/2021	<0.200	<0.400
	3/2/2022	<0.189	<0.377
MW-93	12/29/2021	<0.192	<0.385
	3/2/2022	<0.189	<0.377
ROD Cleanup Level ^{9.}		NA	NA
JSCS SLV ^{10.}		NA	NA

Notes:

1. TPH = Total Petroleum Hydrocarbons by NWTPHDx method with silica gel clean up.
2. mg/L (ppm) = milligrams per liter (parts per million).
3. **Bold** denotes analyte detected above laboratory reporting limit.
4. J = result is estimated.
5. Z = the chromatographic response does not resemble a typical fuel pattern.
6. -- = not analyzed or not available.
7. F-11 = hydrocarbon pattern indicates sample is possibly weathered diesel or from another related compound.
8. F-13 = The sample chromatogram does not resemble the fuel standard used for quantitation. Value is estimated.
9. ROD Cleanup Levels from U.S. EPA Errata #2 for the Record of Decision Table 17 for Portland Harbor Superfund Site, Portland, Oregon, January 2020. The level shown is the Groundwater Cleanup Level unless one was not available, in which case the Surface Water Cleanup Level was used, per DEQ Guidance.
10. JSCS SLV = Screening Level Values from Portland Harbor Joint Source Control Strategy (JSCS), December 2005.
11. Shading denotes analyte detected above screening criteria. As instructed by DEQ, concentrations of analytes were compared to the Portland Harbor Cleanup Level. If neither a Groundwater or Surface Water Cleanup Level was available, the data were compared to the Joint Source Control Strategy Screening Level Value.
12. NA = Cleanup Level and SLV not available for this analyte.
13. < = constituent was not detected at a concentration greater than laboratory method reporting limit shown.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran
		Concentrations in µg/L (ppb)																			
		AREA 1																			
MW-52	1/21/2019	<0.163	<0.163	<0.0816	<0.0816	<0.0816	<0.0816	<0.122	<0.122	<0.0816	<0.122	<0.0816	<0.0816	<0.0816	<0.0816	<0.0816	<0.163	<0.0816	<0.0816	<0.122	<0.0816
	3/5/2019	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<2.00	<0.0189	<0.0189	<0.0283	<0.0189
	6/19/2019	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	9/10/2019	<0.0385	<0.0385	<0.0192	<0.0192	<0.0192	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0385	<0.0192	<0.0192	<0.0288	<0.0192
	12/10/2019	<0.0392	<0.0392	<0.0196	<0.0196	<0.0196	<0.0196	<0.0294	<0.0294	<0.0196	<0.0294	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0392	<0.0196	<0.0196	<0.0294	<0.0196
	3/17/2020	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	6/10/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	9/10/2020	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	12/1/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
MW-62	1/21/2019	<0.163	<0.163	<0.0816	<0.0816	<0.0816	<0.0816	<0.122	<0.122	<0.0816	<0.122	<0.0816	<0.0816	<0.0816	<0.0816	<0.0816	<0.163	<0.0816	<0.0816	<0.122	<0.0816
	3/6/2019	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<2.00	<0.0189	<0.0189	<0.0283	<0.0189
	6/19/2019	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	9/10/2019	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	12/10/2019	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	3/17/2020	<0.0385	<0.0385	<0.0192	<0.0192	<0.0192	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0385	<0.0192	<0.0192	<0.0288	<0.0192
	6/10/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	9/10/2020	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	12/1/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
MW-90	7/2/2019	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	0.0249	<0.0189	<0.0283	<0.0189
	9/10/2019	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	12/12/2019	<0.0388	<0.0388	<0.0194	<0.0194	<0.0194	<0.0194	<0.0291	<0.0291	<0.0194	<0.0291	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0388	<0.0194	<0.0194	<0.0291	<0.0194
	3/17/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	6/9/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	9/9/2020	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	12/1/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	6/8/2021	0.0453	0.0769	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	9/22/2021	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0755	<0.0283	<0.0189	<0.0755	<0.0189	<0.0189	<0.0755	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	12/2/2021	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	3/2/2022	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
MW-91	7/2/2019	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	0.0803	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.115	<0.0769
	9/10/2019	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	12/12/2019	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	3/17/2020	<0.152	<0.152	<0.0762	<0.0762	<0.0762	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	<0.0762	<0.0762	<0.0762	<0.152	<0.0762	<0.0762	<0.114	<0.0762
	6/10/2020	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	9/10/2020	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
ROD Cleanup Level ¹⁰ .		NA	2.1	23	NA	0.73	0.0012	0.00012	0.0012	0.4	0.0013	0.									

Please refer to notes at end of table.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran
		Concentrations in µg/L (ppb)																			
		AREA 1																			
MW-91 (continued)	12/1/2020	<0.0388	<0.0388	<0.0194	<0.0194	<0.0194	<0.0194	<0.0291	<0.0291	<0.0194	<0.0291	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0388	<0.0194	<0.0194	<0.0291	<0.0194
	3/11/2021	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	6/10/2021	0.0629	0.157	<0.0189	<0.0189	<0.0283 R-02	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	0.129	<0.0189	<0.0189	<0.0283	<0.0189
	6/10/2021 DUP	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	9/23/2021	<0.0408	<0.0408	<0.0204	<0.0204	<0.0204	<0.0204	<0.0306	<0.0306	<0.0204	<0.0306	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0408	<0.0204	<0.0204	<0.0306	<0.0204
	9/23/2021 DUP	<0.0408	<0.0408	<0.0204	<0.0204	<0.0204	<0.0204	<0.0306	<0.0306	<0.0204	<0.0306	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0408	<0.0204	<0.0204	<0.0306	<0.0204
	12/2/2021	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	0.0193	<0.0190	<0.0286	<0.0190
	3/3/2022	<0.0408	<0.0408	<0.0204	<0.0204	<0.0204	<0.0204	<0.0306	<0.0306	<0.0306	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0408	<0.0204	<0.0204	<0.0306	<0.0204
AREA 2																					
MW-17	1/21/2019	<0.0784	<0.0784	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0784	<0.0392	<0.0392	-	<0.0392
	3/6/2019	<0.0377	<0.0377	<0.0189	<0.0189	0.0217	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<2.00	<0.0189	<0.0189	<0.0283	<0.0189
	6/19/2019	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	9/10/2019	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	12/16/2019	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	12/16/2019 DUP	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	0.0208	<0.0286	0.0376	<0.0190	0.0310	0.0226	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	3/18/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	3/18/2020 DUP	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	6/11/2020	<0.0385	<0.0385	<0.0192	<0.0192	<0.0192	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0385	<0.0192	<0.0192	<0.0288	<0.0192
	6/11/2020 DUP	<0.0385	<0.0385	<0.0192	<0.0192	<0.0192	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0385	<0.0192	<0.0192	<0.0288	<0.0192
	9/11/2020	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	9/11/2020 DUP	<0.0388	<0.0388	<0.0194	<0.0194	<0.0194	<0.0194	<0.0291	<0.0291	<0.0194	<0.0291	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0388	<0.0194	<0.0194	<0.0291	<0.0194
	12/3/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	12/3/2020 DUP	<0.0392	<0.0392	<0.0196	<0.0196	<0.0196	<0.0196	<0.0294	<0.0294	<0.0196	<0.0294	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0392	<0.0196	<0.0196	<0.0294	<0.0196
	3/10/2021	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	3/10/2021 DUP	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	6/9/2021	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	6/9/2021 DUP	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	9/21/2021	<0.0404	<0.0404	<0.0202	<0.0202	<0.0202	<0.0202	<0.0303	<0.0303	<0.0202	<0.0303	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0404	<0.0202	<0.0202	<0.0303	<0.0202
	12/1/2021	<0.0412	<0.0412	<0.0206	<0.0206	0.0209	<0.0206	<0.0309	<0.0309	<0.0206	<0.0309	<0.0206	<0.0206	0.0470	<0.0206	<0.0206	<0.0412	<0.0206	0.0430	<0.0309	<0.0206
	3/1/2022	<0.0440	<0.0440	<0.0220	<0.0220	0.0248	<0.0220	<0.0330	<0.0330	<0.0330	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0440	<0.0220	<0.0220	<0.0330	<0.0220
MW-31	1/21/2019	<0.0392	<0.0392	<0.0196	<0.0196	<0.0196	<0.0196	<0.0294	<0.0294	<0.0196	<0.0294	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0392	<0.0196	<0.0196	<0.0294	<0.0196
ROD Cleanup Level ¹⁰		NA	2.1	23	NA	0.73	0.0012	0.00012	0.0012	0.4	0.0013	0.0013	0.00012	6.2	3.9	0.0012	12	6.3	10	NA	NA
JSCS SLV ¹¹		NA	0.2	0.2	0.2	0.2	0.018	0.018	0.018	0.2	0.018	0.018	0.018	0.2	0.2	0.018	0.2	0.2	0.2	3.4	3.7

Please refer to notes at end of table.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran
		Concentrations in µg/L (ppb)																			
		AREA 2																			
MW-66	12/8/2009	-	-	0.588 J	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.192	0.0789 J	<0.0962	<0.0962	<0.0962	0.0922 J	0.15	-	-
	6/3/2010	-	<0.0966	0.218	<0.0966	<0.0966	0.0258	0.0321	0.0195	<0.0966	0.0178	0.0302	<0.0966	0.0673 J	<0.0966	0.0228	<0.0966	0.115	0.148	-	-
	12/1/2010	-	-	0.0564 J	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.194	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	0.0511 J	-	-
	6/2/2011	-	<0.0957	0.205	<0.0957	<0.0957	0.0823	0.0875	0.0481	0.0565 J	0.0568	0.0785	0.0119	0.147	<0.0957	0.046	<0.0957	0.19	0.224	-	-
	12/15/2011	-	<0.0952	0.133	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	0.0749	<0.0952	-	-
	3/27/2012	-	<0.048	0.14	<0.048	<0.048	0.012	0.017	0.012	<0.048	0.011	0.015	-	<0.048	<0.048	0.011	<0.048	0.11	0.08 J	-	-
	7/6/2012	<0.0748	<0.0748	0.191	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	0.102	0.05	-	<0.0374
	12/5/2012	<0.0748	<0.0748	0.114	<0.0374	<0.0374	<0.0374	0.04	<0.0748 *	0.045	<0.0748 *	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	0.0693	0.0548	-	<0.0374
	6/19/2013	<0.151	<0.151	0.154	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	0.166	0.113	<0.113	<0.0755
	12/16/2013	<0.190	<0.190	0.478	<0.0952	<0.0952	<0.0952	<0.143	<0.143	<0.0952	<0.143	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.190	<0.0952	<0.0952	<0.0952	<0.0952
	6/11/2014	<0.0381	<0.0381	0.180	<0.0190	0.0203	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	0.0514	0.139	0.0904	<0.0286	<0.0190
	12/23/2014	<0.151	<0.151	0.276	<0.0755	<0.0755	0.0393 J	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	0.114	0.0640 J	<0.113	<0.0755
	6/30/2015	<0.0762	<0.0762	0.090	<0.0381	0.0303	<0.0381	<0.0571	<0.0571	<0.0381	<0.0571	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0762	<0.0381	0.0533	<0.0381	<0.0381
	12/17/2015	<0.0762	<0.0762	0.0956	<0.0381	-	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0762	0.0795	0.0679	-	<0.0381
	6/22/2016	<0.0762	<0.0762	0.131	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0762	0.113	0.059	<0.0381	<0.0381
	12/12/2016	<0.0755	<0.0755	0.167	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0755	0.112	0.0907	-	<0.0377
	6/27/2017	<0.0748	<0.0748	0.131	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	0.0639	0.0475	<0.113	<0.0755
	12/13/2017	<0.0374	<0.0374	0.0795	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	0.0609	0.0593	<0.0280	<0.0187
	6/27/2018	<0.0769	<0.0769	0.210	0.0358	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0769	0.0636	0.0522	-	<0.0385
	12/18/2018	<0.0748	<0.0748	0.286	<0.0374	<0.0374	0.0485 M-05	0.0653	0.0671 M-05	0.0765	<0.0374	0.0472 M-05	<0.0374	0.0616	<0.0374	0.0559	<0.0748	0.0994	0.168	-	<0.0374
	6/20/2019	<0.0769	<0.0769	0.205	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0769	0.0890	0.0877	-	<0.0385
	12/12/2019	<0.0762	<0.0762	0.417	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0762	0.0942	0.0474	-	<0.0381
	6/10/2020	<0.0374	<0.0374	0.153	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	0.0326	0.0473	<0.0280	<0.0187
	12/3/2020	<0.0392	<0.0392	0.474	<0.0196	<0.0196	<0.0196	<0.0294	<0.0294	<0.0196	<0.0294	<0.0196	<0.0196	<0.0196	<0.0196	<0.0196	<0.0392	0.0914	0.0760	<0.0294	<0.0196
	6/9/2021	<0.0374	<0.0374	0.258	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	0.0411	0.0527	<0.0280	<0.0187
	12/1/2021	<0.0381	<0.0381	0.0711	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	0.0480	0.0671	<0.0286	<0.0190
	11/29/2022	<0.0717	<0.0717	0.262	<0.0358	<0.0358	<0.0179	<0.0179	<0.0179	<0.0358	<0.0179	<0.0179	<0.0179	<0.0179	<0.0358	<0.0358	<0.0179	<0.0717	0.0466	<0.0358	<0.0358
MW-81	12/8/2009	-	-	0.697	<0.0962	<0.0962	<0.0962	0.0668 J	<0.0962	0.101	<0.0962	<0.0962	<0.192	0.0673 J	<0.0962	0.058 J	<0.0962	0.0543	0.151	-	-
	12/8/2009 DUP	-	-	0.691	<0.0962	<0.0962	<0.0962	0.0517 J	<0.0962	0.0826 J	<0.0962	<0.0962	<0.192	0.0617 J	<0.0962	<0.0962	<0.0962	0.0509 J	0.136	-	-
	12/1/2010	-	-	0.56	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.098	<0.196	<0.098	<0.098	<0.098	<0.098	<0.098	0.0684 J	-	-
	12/15/2011	-	<0.0952	0.62	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952	-	-
	3/28/2012	-	<0.049	0.35	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0049	-	<0.049	<0.049	<0.0049	<0.049	<0.049	<0.049	-	-
	7/6/2012	<0.0748	<0.0748	0.683	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.03.											

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran
		Concentrations in µg/L (ppb)																			
AREA 2																					
MW-82	7/2/2019	<0.151	<0.151	0.138	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	0.105	<0.0755	<0.151	0.238	<0.0755	<0.113	<0.0755
	9/10/2019	<0.150	<0.150	0.0833	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	0.194	<0.0748	<0.112	<0.0748
	12/12/2019	<0.160	<0.160	0.295	<0.0800	<0.0800	<0.0800	<0.120	<0.120	<0.0800	<0.120	<0.0800	<0.0800	0.116	0.220	<0.0800	<0.160	0.424	<0.0800	<0.120	<0.0800
	3/17/2020	<0.150	<0.150	0.254	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	0.0823	0.135	<0.0748	<0.150	0.311	<0.0748	<0.112	<0.0748
	6/10/2020	<0.150	<0.150	0.258	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	0.114	<0.0748	<0.150	0.264	<0.0748	<0.112	<0.0748
	9/9/2020	<0.150	<0.150	0.125	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	0.211	<0.0748	<0.112	<0.0748
	12/1/2020	<0.163	<0.163	0.399	<0.0816	<0.0816	<0.0816	<0.122	<0.122	<0.0816	<0.122	<0.0816	<0.0816	0.0980	0.166	<0.0816	<0.163	0.400	<0.0816	<0.122	<0.0816
	3/10/2021	<0.152	<0.152	0.263	<0.0762	<0.0762	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	0.0777	0.121	<0.0762	<0.152	0.278	<0.0762	<0.114	<0.0762
	6/9/2021	<0.151	<0.151	0.215	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.0928	0.0763	<0.0755	<0.151	0.268	<0.0755	<0.113	<0.0755
	9/22/2021	<0.151	<0.151	0.158	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.0775	<0.0755	<0.0755	<0.151	0.251	<0.0755	<0.113	<0.0755
	12/1/2021	<0.0396	<0.0396	0.43	<0.0198	0.0782	<0.0198	<0.0297	<0.0297	<0.0198	<0.0297	<0.0198	<0.0198	0.0908	0.104	<0.0198	<0.0396	0.351	0.0622	<0.0297	<0.0198
3/2/2022	<0.0404	<0.0404	0.301	<0.0202	0.0558	<0.0202	<0.0303	<0.0303	<0.0303	<0.0202	<0.0202	<0.0202	<0.0202	0.0783	0.0757	<0.0202	0.399	0.285	0.0540	<0.0303	<0.0202
MW-83	7/2/2019	<0.151	<0.151	0.253	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.101	<0.0755	<0.0755	0.203	0.182	0.0834	<0.113	<0.0755
	9/11/2019	<0.151	<0.151	0.266	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	12/12/2019	<0.167	<0.167	0.312	<0.0833	<0.0833	<0.0833	<0.125	<0.125	<0.0833	<0.125	<0.0833	<0.0833	<0.0833	<0.0833	<0.0833	<0.167	<0.0833	<0.0833	<0.125	<0.0833
	3/18/2020	<0.154	<0.154	0.162	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.115	<0.0769
	6/11/2020	<0.0381	<0.0381	0.221	<0.0190	0.0240	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	0.0315	<0.0190	0.0420	0.0618	0.0214	<0.0286	<0.0190
	9/9/2020	<0.0374	<0.0374	0.205	<0.0187	0.0240	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	0.0345	0.0291	<0.0280	<0.0187
	12/1/2020	<0.0421	<0.0421	0.248	<0.0211	0.0286	<0.0211	<0.0316	<0.0316	<0.0211	<0.0316	<0.0211	<0.0211	<0.0211	<0.0211	<0.0211	<0.0421	0.0236	0.0278	<0.0316	<0.0211
	3/10/2021	<0.0374	<0.0374	0.0834	<0.0187	0.0219	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	0.0194	0.0248	<0.0280	<0.0187
	6/9/2021	<0.0377	<0.0377	0.0645	<0.0189	0.0218	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	0.0292	<0.0283	<0.0189
	9/22/2021	<0.0377	<0.0377	0.203	<0.0189	0.0195	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	0.0273	<0.0283	<0.0189
	12/1/2021	<0.0396	<0.0396	0.291	<0.0198	0.0339	<0.0198	<0.0297	<0.0297	<0.0198	<0.0297	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0396	<0.0198	0.0280	<0.0297	<0.0198
	12/1/2021 DUP	<0.0377	<0.0377	0.213	<0.0189	0.0242	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	0.0268	<0.0283	<0.0189
3/1/2022	<0.0404	<0.0404	0.181	<0.0202	<0.0202	<0.0202	<0.0303	<0.0303	<0.0303	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0404	<0.0202	0.0231	<0.0303	<0.0202	
MW-84	7/2/2019	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	9/10/2019	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	12/16/2019	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	3/18/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	6/10/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	9/10/2020	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	0.0347	<0.0189	<0.0189	<0.0377	<0.0189	0.0282	<0.0283	<0.0189
	12/1/2020	<0.0404	<0.0404	<0.0202	<0.0202	<0.0202	<0.0202	<0.0303	<0.0303	<0.0202	<0.0303	<0.0202	<0.0202	<0.0202	<0.0202	<0.0202	<0.0404	<0.0202	<0.0202	<0.0303	<0.0202
	3/9/2021	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	6/9/2021	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	9/22/2021	<0.0408	<0.0408	<0.0204	<0.0204	<0.0204	<0.0204	<0.0306	<0.0306	<0.0204	<0.0306	<0.0204	<0.0204	<0.0204	<0.0204	<0.0204	<0.0408	<0.0204	<0.0204	<0.0306	<0.0204
	12/1/2021	<0.038																			

Please refer to notes at end of table.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran
		Concentrations in µg/L (ppb)																			
		AREA 2																			
MW-85	7/2/2019	<0.151	<0.151	1.63	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	0.235	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	9/11/2019	<0.151	<0.151	0.685	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	12/12/2019	<0.152	<0.152	0.518	<0.0762	<0.0762	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	<0.0762	<0.0762	<0.0762	<0.152	<0.0762	<0.0762	<0.114	<0.0762
	3/18/2020	<0.154	<0.154	0.473	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.115	<0.0769
	6/11/2020	<0.0385	<0.0385	1.71	<0.0192	<0.0192	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	0.241	<0.0192	<0.0385	0.0278	<0.0192	<0.0288	<0.0192
	9/11/2020	<0.0377	<0.0377	0.490	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	0.119	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	12/3/2020	<0.0408	<0.0408	0.994	<0.0204	<0.0204	<0.0204	<0.0306	<0.0306	<0.0204	<0.0306	<0.0204	<0.0204	<0.0204	0.0743	<0.0204	<0.0408	<0.0204	<0.0204	<0.0306	<0.0204
	3/10/2021	<0.0385	<0.0385	1.64	<0.0192	0.0249	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	0.248	<0.0192	<0.0385	0.0313	<0.0192	<0.0288	0.0300
	6/9/2021	<0.0404	<0.0404	0.845	<0.0202	<0.0202	<0.0202	<0.0303	<0.0303	<0.0202	<0.0303	<0.0202	<0.0202	<0.0202	0.0765	<0.0202	<0.0404	<0.0202	<0.0202	<0.0303	<0.0202
	9/24/2021	<0.0377	<0.0377	0.311	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	12/1/2021	<0.0412	<0.0412	1.34	<0.0206	<0.0206	<0.0206	<0.0309	<0.0309	<0.0206	<0.0309	<0.0206	<0.0206	<0.0206	0.0322	<0.0206	<0.0412	<0.0206	<0.0206	<0.0309	<0.0206
	3/1/2022	<0.0396	<0.0396	2.85	<0.0198	0.0265	<0.0198	<0.0297	<0.0297	<0.0297	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	0.351	<0.0198	<0.0396	0.0237	<0.0198	<0.0297
MW-92	7/2/2019	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	9/10/2019	<0.152	<0.152	<0.0762	<0.0762	<0.0762	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	<0.0762	<0.0762	<0.0762	<0.152	<0.0762	<0.0762	<0.114	<0.0762
	12/12/2019	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.115	<0.0769
	3/18/2020	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.115	<0.0769
	6/11/2020	<0.0385	<0.0385	<0.0192	<0.0192	<0.0192	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0385	<0.0192	<0.0192	<0.0288	<0.0192
	9/11/2020	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	12/3/2020	<0.0396	<0.0396	<0.0198	<0.0198	<0.0198	<0.0198	<0.0297	<0.0297	<0.0198	<0.0297	<0.0198	<0.0198	<0.0198	<0.0198	<0.0198	<0.0396	<0.0198	<0.0198	<0.0297	<0.0198
	3/10/2021	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	6/9/2021	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	9/22/2021	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	12/1/2021	<0.0377	<0.0377	<0.0189	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	3/1/2022	<0.0388	<0.0388	<0.0194	<0.0194	<0.0194	<0.0194	<0.0291	<0.0291	<0.0291	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0194	<0.0388	<0.0194	<0.0194	<0.0291	<0.0194
SMW-12	12/7/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/1/2010	-	-	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.192	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	-	-
	12/15/2011	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	<0.0952	<0.0952	-	-
	3/27/2012	<0.048	<0.048	<0.048	<0.048	<0.048	<0.0048	<0.0048	<0.0048	<0.048	<0.0048	<0.0048	-	<0.048	<0.048	<0.0048	<0.048	<0.048	<0.048	-	-
	7/6/2012	<0.0748	<0.0748	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	<0.0374	<0.0374	-	<0.0374
	7/6/2012 DUP	<0.0748	<0.0748	<0.0374	<0.0374	<0.0374	<0.0374	0.042	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	<0.0374	<0.0374	-	<0.0374
	12/5/2012	<0.0755	<0.0755	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0755 *	<0.0377	<0.0755 *	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0755	<0.0377	<0.0755	-	<0.0377
	12/16/2013	<0.0381	<0.0381	<0.0190	<0.0190	0.0193	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	<0.0190	<0.0286	<0.0190
	12/23/2014	<0.0377	<0.0377	<0.0189	<0.0189	0.0263	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	0.0222	<0.0283	<0.0189
	12/17/2015	<0.0762	<0.0762	<0.0381	<0.0381	0.0196 J	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<2.00	<0.0381	<0.0381	-	<0.0381
	12/9/2016	<0.0792 H	<0.0792 H	<0.0396 H	<0.0396 H	0.0224 J H	<0.0396 H	<0.0396 H	<0.0396 H	<0.0396 H	<0.0396 H	<0.0396 H	<0.0396 H	<0.0396 H	<0.0396 H	<0.0396 H	<0.0792 H	<0.0396 H	<0.0396 H	-	<0.0396 H
	12/13/2017	<0.0374	<0.0374	<0.0187	<0.0187	0.0211	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	0.0467	<0.0280	<0.0187
ROD Cleanup Level ¹⁰ .		NA	2.1	23	NA	0.73	0.0012	0.00012	0.0012	0.4	0.0013	0.0013	0.00012	6.2	3.9	0.0012	12	6.3	10	NA	NA
JSCS SLV ¹¹ .		NA	0.2	0.2	0.2	0.2	0.018	0.018	0.018	0.2	0.018	0.018	0.018	0.2	0.2						

Please refer to notes at end of table.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran
		Concentrations in µg/L (ppb)																			
		SCHNITZER ASD YARD																			
MW-14	1/21/2019	<0.167	<0.167	0.0853	<0.0833	<0.0833	<0.0833	<0.125	<0.125	<0.125	<0.125	<0.0833	<0.0833	<0.0833	<0.0833	<0.0833	<0.167	<0.0833	<0.0833	<0.125	<0.0833
	3/5/2019	<0.0377	<0.0377	0.0793	<0.0189	<0.0377	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<2.00	0.0209	<0.0189	<0.0283	<0.0189
	3/5/2019 DUP	<0.0377	<0.0377	0.0753	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<0.0377	<0.0189	<0.0189	<0.0283	<0.0189
	6/20/2019	<0.0381	<0.0381	0.105	<0.0190	<0.210	<0.0190	<0.0286	<0.0286	<0.0755	<0.0286	<0.0190	<0.0755	<0.0190	<0.0190	<0.0755	<0.0381	0.0294	<0.0190	<0.0286	<0.0190
	6/20/2019 DUP	<0.0755	<0.0755	0.141	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377
	9/11/2019	<0.151	<0.151	0.169	<0.0755	0.0984	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.0781	0.342	<0.0755	<0.151	0.400	<0.0755	0.779	0.198
	9/11/2019 DUP	<0.0755	<0.0755	0.138	0.0424	0.114	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	0.0855	0.355	<0.0377	<0.0377	0.427	0.0716	-	0.263
	12/11/2019	<0.162	<0.162	<0.0808	<0.0808	0.0988	<0.0808	<0.121	<0.121	<0.0808	<0.121	<0.0808	<0.0808	0.231	0.171	<0.0808	<0.162	0.312	0.173	0.158	0.104
	3/18/2020	<0.154	<0.154	0.107	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	0.191	<0.0769	<0.0769	<0.154	0.210	0.121	<0.115	<0.0769
	3/18/2020 DUP	<0.150	<0.150	0.145	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	0.200	<0.0748	<0.0748	<0.150	0.253	0.129	<0.112	<0.0748
	6/10/2020	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.147	0.125	<0.0755	<0.151	0.217	0.105	<0.113	<0.0755
	6/10/2020 DUP	<0.150	<0.150	<0.0748	<0.0748	0.0756	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	0.194	0.135	<0.0748	<0.150	0.234	0.132	<0.112	<0.0748
	9/9/2020	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.114	<0.264	<0.0755	<0.151	0.173	0.0794	<0.151	<0.113
	9/9/2020 DUP	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.137	<0.226	<0.0755	<0.151	0.219	0.102	<0.151	<0.113
	12/3/2020	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.191	0.100	<0.0755	<0.151	0.231	0.132	<0.113	<0.0755
	3/11/2021	<0.151	<0.151	0.209	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.0980	<0.0755	<0.0755	<0.151	0.0765	<0.0755	<0.113	<0.0755
	6/8/2021	<0.155	<0.155	0.105	<0.0777	<0.0777	<0.0777	<0.117	<0.117	<0.0777	<0.117	<0.0777	<0.0777	<0.0777	<0.0777	<0.0777	<0.155	<0.0777	<0.0777	<0.117	<0.0777
	Well decommissioned in January 2022																				
MW-72	8/20/2009	-	-	0.103	<0.0952	0.0647 J	0.216	0.257	0.145	0.191	0.182	0.235	<0.19	0.517	<0.0952	0.144	0.107	0.291	0.603	-	-
	12/8/2009	0.0937 J	<0.0962	<0.0962	<0.0962	<0.0962	0.0553 J	<0.0962	<0.0962	0.0551 J	<0.0962	0.054 J	<0.192	0.194	<0.0962	<0.0962	0.0807 J	0.175	0.242	-	-
	12/2/2010	-	-	0.0831 J	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.194	0.0613 J	0.0574 J	<0.0971	<0.0971	0.156	0.0704 J	-	-
	12/2/2010 DUP	-	-	0.102	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.194	0.080 J	0.0713 J	<0.0971	<0.0971	0.202	0.09 J	-	-
	6/2/2011	-	<0.0952	0.0784 J	<0.0952	<0.00476	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	0.0925 J	<0.0952	-	-
	12/15/2011	-	<0.0952	0.0840 J	<0.0952	<0.0952	0.00651	0.00613	<0.00476	<0.0952	<0.00476	0.00853	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	0.0964	0.0506 J	-	-
	12/15/2011 DUP	-	<0.0952	0.0869	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	0.00543	<0.00476	<0.0952	<0.0952	<0.00476	<0.0952	0.0972	<0.0952	-	-
	3/29/2012	<0.049	<0.049	0.081 J	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0049	-	<0.049	0.058 J	<0.0049	<0.049	0.13	<0.049	-	-
	3/29/2012 DUP	<0.049	<0.049	0.078 J	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	<0.0049	-	<0.049	0.059 J	<0.0049	<0.049	0.12	<0.049	-	-
	7/6/2012	<0.0748	<0.0374	0.1	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	0.045	0.0731	<0.0374	<0.0748	0.206	<0.0374	-	<0.0374
	7/6/2012 DUP	<0.0748	<0.0374	0.0978	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	0.0457	0.0832	<0.0374	<0.0748	0.227	<0.0374	-	<0.0374
	12/5/2012	<0.0748	<0.0748	0.102	<0.0374	0.0394	<0.0374	<0.0374	<0.0748 *	<0.0374	<0.0748 *	<0.0374	<0.0374	0.057	0.0654	<0.0374	<0.0748	0.183	0.0503	-	<0.0374
	12/5/2012 DUP	<0.0748	<0.0748	0.109	<0.0374	0.0423	<0.0374	0.0397	<0.0748 *	0.0401	<0.0748 *	<0.0374	<0.0374	0.0792	0.0692	<0.0374	<0.0748	0.20	0.0761	-	<0.0374
	6/19/2013	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.0997	<0.0755	<0.0755	<0.151	0.173	0.102	<0.113	<0.0755
	12/13/2013	<0.152	<0.152	0.0926	<0.0762	<0.0762	<0.114	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	<0.0762	<0.0762	<0.0762	<0.152	0.133	<0.0762	<0.114	<0.0762
	12/13/2013 DUP	<0.381	<0.381	<0.190	<0.190	<0.190	<0.190	<0.286	<0.286	<0.190	<0.286	<0.190	<0.190	<0.190	<0.190	<0.190	<0.190	<0.381	<0.190	<0.286	<0.190
	6/11/2014	<0.0381	<0.0381	0.0631	<0.0190	0.0296	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	0.0470	0.0311	<0.0190	0.0220	0.107	0.0486	<0.0286	<0.0190
	12/19/2014	<0.0762	<0.0762	0.101	<0.0381	0.0329 J	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	0.0436	0.0516	<0.0381	<0.0762	0.153	0.0417	-	<0.0381
12/19/2014 DUP	<0.0755	<0.0755	0.0962	<0.0377	0.0399	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	0.0427	0.0541	<0.0377	<0.0755	0.146	0.0404	-	<0.0377	
6/26/2015	<0.151	<0.151	0.0628	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	0.0422	<0.0755	<0.151	0.075	<0.0755	<0.113	<0.0755	
ROD Cleanup Level ¹⁰		NA	2.1	23	NA	0.73	0.0012	0.00012	0.0012	0.4	0.0013	0.0013	0.00012	6.2	3.9	0.0012	12	6.3	10	NA	NA
JSCS SLV ¹¹		NA	0.2	0.2	0.2	0.2	0.018	0.018	0.018	0.2	0.018	0.018	0.018	0.2	0.2	0.018	0.2	0.2	0.2	3.4	3.7

Please refer to notes at end of table.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran	
		Concentrations in µg/L (ppb)																				
		SCHNITZER ASD YARD																				
MW-72 (continued)	12/16/2015	<0.0762	<0.0762	0.0613	<0.0381	0.0213 J	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	0.0334 J	<0.0381	<0.0381	<0.0762	0.0758	0.0373 J	-	-	
	12/16/2015 DUP	<0.0762	<0.0762	0.0585	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	0.0322 J	<0.0381	<0.0381	<0.0762	0.0677	0.0327 J	-	-	
	6/21/2016	<0.0769	<0.0769	0.0683	<0.0385	0.0227	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	0.0333	0.0453	<0.0385	<0.0769	0.131	0.0301	-	<0.0385	
	6/21/2016 DUP	<0.0762	<0.0762	0.0667	<0.0381	0.0208	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	0.0316	0.0435	<0.0381	<0.0762	0.124	0.0282	-	<0.0381	
	12/7/2016	<0.0748 H	<0.0748 H	0.0871 H	<0.0374 H	0.0289 H	<0.0374 H	<0.0374 H	<0.0374 H	<0.0374 H	<0.0374 H	<0.0374 H	<0.0374 H	0.0507 H	0.0449 H	<0.0374 H	<0.0748 H	0.126 H	0.0551 H	-	<0.0374 H	
	12/7/2016 DUP	<0.0748 H	<0.0748 H	0.0808 H	<0.0374 H	0.0256 J, H	<0.0374 H	<0.0374 H	<0.0374 H	<0.0374 H	<0.0374 H	<0.0374 H	<0.0374 H	0.0505 H	0.042 H	<0.0374 H	<0.0748 H	0.126 H	0.0552 H	-	<0.0374 H	
	6/28/2017	<0.0755	<0.0755	0.123	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	0.0421	0.0887	<0.0377	<0.0755	0.208	0.0325 J	-	<0.0377	
	12/14/2017	<0.0374	<0.0374	0.0718	<0.0187	0.0332	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	0.0487	0.0303	<0.0187	<0.0374	0.104	0.0561	<0.0280	<0.0187	
	12/14/2017 DUP	<0.0374	<0.0374	0.0837	<0.0187	0.0392	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	0.0506	0.0292 M-04	<0.0187	<0.0374	0.117	0.05	<0.0280	<0.0187	
	6/26/2018	<0.0748	<0.0748	0.108	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	0.0433	0.0644	<0.0374	<0.0748	0.192	0.0403	-	<0.0374	
	12/18/2018	<0.0748	<0.0748	0.0643	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	0.0828	<0.0374	-	<0.0374	
	12/18/2018 DUP	<0.0748	<0.0748	0.0611	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	0.0809	<0.0374	-	<0.0374	
	6/21/2019	<0.0755	<0.0755	0.0612	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0755	0.0822	0.0416	-	<0.0377	
	12/13/2019	<0.0377	<0.0377	0.0655	<0.0189	<0.0189	<0.0189	<0.0283	<0.0283	<0.189	<0.0283	<0.0189	<0.189	0.0350	0.0277	<0.189	<0.0377	0.0886	0.0372	<0.0283	<0.0189	
	12/13/2019 DUP	<0.0385	<0.0385	0.0627	<0.0192	<0.0192	<0.0192	<0.0288	<0.0288	<0.192	<0.0288	<0.192	<0.192	0.0356	0.0245	<0.0192	<0.0385	0.0918	0.0372	<0.0288	<0.0192	
6/12/2020	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	0.104	<0.0769	<0.115	<0.0769		
MW-73	8/20/2009	-	-	0.113	<0.0952	0.121	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.19	0.194	0.327	<0.0952	0.089	0.629	0.256	-	-	
	12/8/2009	-	-	0.0649 J	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.192	0.0817 J	0.0996	<0.0962	<0.0962	0.235	0.106	-	-	
	6/3/2010	-	<0.0966	0.128	<0.0966	0.069 J	0.0157	0.0096	0.00665	<0.0966	0.00604	0.0207	<0.00483	0.118	0.194	0.00665	0.168	0.318	0.179	-	-	
	6/3/2010 DUP	-	<0.0971	0.122	<0.0971	0.0606	0.0178	0.0141	0.00953	<0.0971	0.00875	0.0228	<0.00485	0.113	0.168	0.00882	0.166	0.285	0.168	-	-	
	12/2/2010	-	-	0.179	<0.0962	0.166	<0.0962	0.0626 J	<0.0962	0.0749 J	<0.0962	0.0646 J	<0.192	0.219	0.949	<0.0962	0.13	1.09	0.363	-	-	
	6/3/2011	-	<0.0952	<0.0952	<0.0952	<0.0952	0.0061	0.00635	<0.00476	<0.0952	<0.00476	0.00869	<0.00476	<0.0952	0.062 J	<0.00476	<0.0952	0.101	<0.0952	-	-	
	12/16/2011	-	0.0895 J	0.0807 J	<0.0952	<0.0952	0.0072	0.00745	0.00585	<0.0952	0.00611	0.00977	<0.00476	<0.0952	<0.0952	0.00486	0.125	0.0625 J	0.0505 J	-	-	
	3/28/2012	0.15	0.053 J	0.061 J	<0.048	<0.048	0.0083	0.011	0.0076	<0.048	0.0074	0.011	-	<0.048	<0.048	0.0063	0.065 J	0.071 J	0.048 J	-	-	
	7/25/2012	<0.374	<0.112	<0.131	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	0.0456	<0.112	<0.0374	0.087	0.11	0.0633	-	<0.0374	
	12/5/2012	<0.458	<0.159	<0.140	<0.0374	0.0661	<0.0374	<0.0374	<0.0748 *	<0.0374	<0.0748 *	<0.0374	<0.0374	0.0414	0.0458	<0.0374	0.0832	0.0885	0.069	-	<0.0374	
	6/19/2013	<0.755	<0.755	<0.377	<0.377	<0.377	<0.377	<0.566	<0.566	<0.377	<0.566	<0.377	<0.377	<0.377	<0.377	<0.377	<0.755	<0.377	<0.377	<0.566	<0.377	
	12/16/2013	<0.755	<0.755	<0.377	<0.377	<0.377	<0.377	<0.566	<0.566	<0.377	<0.566	<0.377	<0.377	<0.377	<0.377	<0.377	<0.755	<0.377	<0.377	<0.566	<0.377	
	6/12/2014	0.836	0.320	0.201	<0.190	<0.190	0.115	0.162	<0.286	<0.190	<0.286	0.0970	<0.190	0.148	<0.190	<0.190	<0.381	0.160	0.177	<0.286	<0.190	
	12/19/2014	0.620	0.284	<0.171	<0.0381	0.177	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	0.0451	<0.0667	<0.0381	0.075 J	0.101	0.0578	-	<0.0381	
	6/26/2015	0.747	0.437	0.149	<0.189	<0.189	<0.189	<0.283	<0.283	<0.283	<0.283	<0.189	<0.189	<0.189	<0.189	<0.189	<0.377	<0.377	<0.189	<0.283	<0.189	
	12/18/2015	0.565	0.253	0.177	<0.0377	<0.0566	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0566	<0.0377	0.0751 J	0.0654	0.055	-	-	
	6/23/2016	0.747	0.437	0.149	<0.189	<0.189	<0.189	<0.283	<0.283	<0.283	<0.283	<0.189	<0.189	<0.189	<0.189	<0.189	<0.377	<0.377	<0.189	<0.283	<0.189	
	12/12/2016	0.705	0.282	0.241	<0.374	0.0919	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	0.0363 J	<0.374	<0.0374	<0.0748	0.0633	0.0485	-	<0.374	
	6/28/2017	0.0642	0.301	0.247	<0.0377	0.137	0.0233 J	0.0248 J	0.0291 J	0.0349 J	<0.0377	<0.0377	<0.0377	<0.0377	0.0541	0.066	0.0345 J	0.0735 J	0.0704	0.0785	-	<0.0377
	12/14/2017	1.01	0.524	0.372	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	0.106	<0.112	0.157	<0.0748	
6/27/2018	1.32	0.720	0.460	<0.0377	0.0750	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	0.040	<0.0377	<0.0377	0.0109	0.0541	0.0491	-	<0.0377	
12/18/2018	0.941	0.597	0.335 M-02	<0.0377	0.1180	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	0.0506 M-04	<0.0377	0.0857	0.0546	0.0389	-	<0.0377	
ROD Cleanup Level ¹⁰ .		NA	2.1	23	NA	0.73	0.0012	0.00012	0.0012	0.4	0.0013	0.0013	0.00012	6.2	3.9	0.0012	12	6.3	10	NA	NA	
JSCS SLV ¹¹ .		NA	0.2	0.2	0.2	0.2	0.018	0.018	0.018	0.2	0.018	0.018										

Please refer to notes at end of table.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran	
		Concentrations in µg/L (ppb)																				
		SCHNITZER ASD YARD																				
MW-73 (continued)	6/20/2019	1.24	0.761	0.407	<0.0385	0.0469	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	0.0504	<0.0385	0.123	0.0529	0.0462	-	<0.0385	
	12/11/2019	0.594	0.343	0.248	<0.0377	0.150	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.189	<0.0377	<0.0755	0.0703	<0.0377	-	<0.0377	
	6/12/2020	0.793	0.398	<0.385	<0.192	<0.192	<0.192	<0.288	<0.288	<0.192	<0.288	<0.192	<0.192	<0.192	<0.192	<0.192	<0.385	<0.192	<0.192	<0.288	<0.192	
MW-77	8/20/2009	-	-	0.0582	<0.0952	<0.0952	<0.0952	0.05 J	<0.0952	<0.0952	<0.0952	<0.0952	<0.19	0.0805 J	<0.0952	<0.0952	<0.0952	0.0696	0.10	-	-	
	12/8/2009	-	-	0.0532 J	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.192	0.0648 J	<0.0962	<0.0962	<0.0962	0.0603 J	0.083 J	-	-	
MW-79	8/20/2009	-	-	0.061 J	<0.0971	0.0542 J	0.0668 J	0.0733 J	<0.0971	0.0738 J	<0.0971	0.109	<0.194	0.0716 J	<0.0971	<0.0971	<0.0971	0.0711 J	0.24	-	-	
	8/20/2009 DUP	-	-	0.0805 J	0.0484 J	0.133	0.261	0.306	0.194	0.307	0.12	0.379	<0.192	0.293	0.0759 J	0.152	0.129	0.231	0.647	-	-	
	12/8/2009	-	-	0.0714 J	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	0.0515 J	<0.0962	0.0715 J	<0.192	<0.0962	0.0529 J	<0.0962	0.0504 J	0.0524 J	0.142	-	-	
	12/8/2009 DUP	-	-	0.0771 J	<0.0962	0.0486 J	0.0595 J	0.0724 J	<0.0962	0.0796 J	<0.0962	0.103	<0.192	0.0705 J	0.0642 J	<0.0962	0.0625 J	0.0708 J	0.19	-	-	
	6/3/2010	-	<0.0966	0.064 J	<0.0966	0.0532 J	0.0385	0.0329	0.0177	<0.0966	0.0115	0.0592	0.00645	0.0651 J	<0.0966	0.0163	<0.0966	<0.0966	0.219	-	-	
	12/1/2010	-	-	0.0791 J	<0.0952	0.0496 J	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	0.0614	<0.19	0.0503 J	0.057 J	<0.0952	<0.0952	<0.0952	0.183	-	-	
	6/2/2011	-	<0.0971	<0.0971	<0.0971	<0.00485	0.0127	0.0125	<0.00485	<0.0971	<0.00485	0.0237	<0.00485	<0.0971	<0.0971	0.00505	<0.0971	<0.0971	0.0585 J	-	-	
	6/2/2011 DUP	-	<0.0966	<0.0966	<0.0966	<0.00483	0.0134	0.0118	<0.00483	<0.0966	<0.00483	0.0196	<0.00483	<0.0966	<0.0966	<0.00483	<0.0966	<0.0966	0.0566 J	-	-	
	12/16/2011	-	<0.0952	0.0538 J	<0.0952	<0.0952	<0.00476	<0.00476	<0.00476	<0.0952	<0.00476	0.00564	<0.00476	<0.0952	0.0509 J	<0.00476	<0.0952	<0.0952	<0.0952	-	-	
	3/28/2012	<0.049	<0.049	<0.049	<0.049	<0.049	0.055	0.071	0.046	<0.049	0.019	0.11	-	<0.049	<0.049	0.025	<0.049	<0.049	0.14	-	-	
	7/6/2012	<0.0748	<0.0748	<0.0374	<0.0374	0.0594	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	<0.0374	<0.0374	-	<0.0374	
	12/5/2012	0.103	<0.0748	0.0391	<0.0374	0.0543	<0.0374	<0.0374	<0.0748 *	<0.0374	<0.0748 *	<0.0374	<0.0374	<0.0374	0.0624	<0.0374	<0.0748	0.0385	<0.0374	-	<0.0374	
	6/19/2013	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755	
	12/13/2013	<0.152	<0.152	<0.0762	<0.0762	0.0804	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	<0.0762	<0.0762	<0.0762	<0.152	<0.0762	<0.0762	<0.114	<0.0762	
	6/12/2014	0.0198	<0.0385	0.0328	<0.0192	0.0418	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	0.0234	<0.0192	0.0591	0.0214	<0.0192	<0.0288	<0.0192	
	12/19/2014	<0.151	<0.151	<0.0755	<0.0755	0.0877	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755	
	6/26/2015	<0.151	<0.151	<0.0755	<0.0755	0.0457	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	0.0889	<0.0755	<0.0755	<0.113	<0.0755	
	12/18/2015	<0.152	<0.152	<0.0762	<0.0762	<0.0762	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	<0.0762	<0.0762	<0.0762	<0.152	<0.0762	<0.0762	-	-	
	6/23/2016	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.115	<0.0769	
	12/12/2016	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.115	<0.0769	
	6/28/2017	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755	
	12/14/2017	<0.151	<0.151	<0.0755	<0.0755	0.0854	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755	
	6/26/2018	<0.152	<0.152	<0.0762	<0.0762	<0.0762	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	<0.0762	<0.0762	<0.0762	<0.152	<0.0762	<0.0762	<0.114	<0.0762	
	12/18/2018	<0.152	<0.152	<0.0762	<0.0762	<0.0762	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	<0.0762	<0.0762	<0.0762	<0.152	<0.0762	<0.0762	<0.114	<0.0762	
	6/20/2019	<0.150	<0.150	<0.0748	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	<0.0748	<0.0748	<0.112	<0.0748	
	12/10/2019	<0.0748	<0.0748	<0.0374	<0.0374	0.0409	<0.0374	<0.0561	<0.0561	<0.0374	<0.0561	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	<0.0374	<0.0374	<0.0561	<0.0374
	6/11/2020	<0.0385	<0.0385	<0.0192	<0.0192	0.0318	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0192	<0.0385	<0.0192	<0.0192	<0.0288	<0.0192
ROD Cleanup Level ¹⁰ .		NA	2.1	23	NA	0.73	0.0012	0.00012	0.0012	0.4	0.0013	0.0013	0.00012	6.2	3.9	0.0012	12	6.3	10	NA	NA	
JSCS SLV ¹¹ .		NA	0.2	0.2	0.2	0.2	0.018	0.018	0.018	0.2	0.018	0.018	0.018	0.2	0.2	0.018	0.2	0.2	0.2	3.4	3.7	

Please refer to notes at end of table.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran
		Concentrations in µg/L (ppb)																			
		SCHNITZER ASD YARD																			
MW-80	12/8/2009	-	-	0.185	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.192	0.0974	<0.0962	<0.0962	0.0988	0.0896 J	0.134	-	-
	12/2/2010	-	-	0.0591 J	<0.0971	<0.0971	<0.0971	0.0559 J	<0.0971	0.0576 J	<0.0971	0.055 J	<0.194	0.123	<0.0971	<0.0971	0.114	0.0914 J	0.203	-	-
	12/16/2011	-	<0.0952	0.251	<0.0952	<0.0952	0.0129	0.0179	0.0127	<0.0952	0.0133	0.0187	<0.00476	<0.0952	<0.0952	0.0117	<0.0952	0.0917 J	0.0624 J	-	-
	3/29/2012	<0.049	<0.049	0.093 J	<0.049	<0.049	<0.0049	<0.0049	<0.0049	<0.049	<0.0049	0.0054	-	<0.049	<0.049	<0.0049	<0.049	<0.049	<0.049	-	-
	7/6/2012	<0.0748	<0.0748	0.0726	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	<0.0374	0.0376	-	<0.0374
	12/16/2013	<0.151	<0.151	0.298	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	0.158	<0.0755	<0.113	<0.0755
	12/23/2014	<0.0377	<0.0377	0.0484	<0.0189	0.0109 J	<0.0189	<0.0283	<0.0283	<0.0189	<0.0283	<0.0189	<0.0189	0.0192	0.0106 J	<0.0189	<0.0189	0.0188 J	0.0432	<0.0283	<0.0189
	12/18/2015	<0.0762	<0.0762	0.0190 J	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	0.0190 J	<0.0381	<0.0381	<0.0762	<0.0381	0.061	-	-
	12/9/2016	<0.0748	<0.0748	0.0343 J	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	<0.0374	0.0363 J	-	<0.0374
	12/14/2017	<0.0374	<0.0374	<0.0187	<0.0187	<0.0187	<0.0187	<0.0280	<0.0280	<0.0187	<0.0280	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0374	<0.0187	<0.0187	<0.0280	<0.0187
	12/18/2018	<0.0748	<0.0748	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0748	<0.0374	<0.0374	<0.0374	<0.0374
12/13/2019	<0.0381	<0.0381	<0.0190	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	<0.0190	<0.0190	<0.0190	<0.0381	<0.0190	02	<0.0286	<0.0190	
MW-86	7/2/2019	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	9/10/2019	<0.160	<0.160	<0.0800	<0.0800	<0.0800	<0.0800	<0.120	<0.120	<0.0800	<0.120	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.160	<0.0800	<0.0800	<0.120	<0.0800
	12/13/2019	<0.165	<0.165	<0.0825	<0.0825	<0.0825	<0.0825	<0.124	<0.124	<0.0825	<0.124	<0.0825	<0.0825	<0.0825	<0.0825	<0.0825	<0.165	<0.0825	<0.0825	<0.124	<0.0825
	3/18/2020	<0.150	<0.150	<0.0748	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	<0.0748	<0.0748	<0.112	<0.0748
	6/12/2020	<0.150	<0.150	<0.0748	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	0.114	0.114	<0.0748	<0.150	<0.0748	0.0927	0.357	<0.0748
	9/9/2020	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	0.107	<0.0755	<0.151	0.101	<0.0755	<0.113	<0.0755
	12/3/2020	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	0.116	<0.0755	<0.151	0.109	<0.0755	<0.113	<0.0755
	3/11/2021	<0.152	<0.152	<0.0762	<0.0762	<0.0762	<0.0762	<0.114	<0.114	<0.0762	<0.114	<0.0762	<0.0762	0.119	<0.0762	<0.0762	<0.152	0.184	0.159	0.205	<0.0762
	6/8/2021	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	0.170	0.120	<0.0769	<0.154	0.354	0.310	<0.115	<0.0769
	9/22/2021	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	0.0995	0.0954	<0.0755	<0.151	0.278	0.164	<0.113	<0.0755
	11/30/2021	<0.170	<0.170	<0.0851	<0.0851	<0.0851	<0.0851	<0.128	<0.128	<0.0851	<0.128	<0.0851	<0.0851	<0.0851	<0.0851	<0.0851	<0.170	0.178	0.101	<0.128	<0.0851
3/1/2022	<0.165	<0.165	<0.0825	<0.0825	<0.0825	<0.0825	<0.124	<0.124	<0.124	<0.0825	<0.0825	<0.0825	0.0918	<0.0825	<0.0825	<0.165	0.0980	0.109	<0.124	<0.0825	
MW-87	7/2/2019	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	0.0950	<0.0755	<0.113	<0.0755
	7/2/2019 DUP	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	0.0938	<0.0755	<0.113	<0.0755
	9/11/2019	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	9/11/2019 DUP	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	12/11/2019	<0.168	<0.168	<0.0842	<0.0842	<0.0842	<0.0842	<0.126	<0.126	<0.0842	<0.126	<0.0842	<0.0842	<0.0842	<0.0842	<0.0842	<0.168	<0.0842	<0.0842	<0.126	<0.0842
	12/11/2019 DUP	<0.0777	<0.0777	<0.0388	<0.0388	0.0499	<0.0388	<0.0388	<0.0388	<0.0388	<0.0388	<0.0388	<0.0388	0.0623	<0.0388	<0.0388	<0.0777	0.0750	0.0608	-	<0.0388
	3/18/2020	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	<0.0769	<0.0769	<0.115	<0.0769
	6/12/2020	<0.150	<0.150	<0.0748	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	<0.0748	<0.0748	<0.112	<0.0748
	9/9/2020	<0.151	<0.151	<0.0755	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	12/2/2020	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0							

Please refer to notes at end of table.

Table E-3
Historical Groundwater Analytical Results—Polycyclic Aromatic Hydrocarbons
Gunderson LLC
Portland, Oregon

Well ID	Sample Date	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	Carbazole	Dibenzofuran
		Concentrations in µg/L (ppb)																			
		SCHNITZER ASD YARD																			
MW-88	7/2/2019	<0.150	<0.150	0.281	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	0.138	<0.0748	<0.112	<0.0748
	9/11/2019	<0.150	<0.150	0.892	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	0.114	<0.0748	<0.112	<0.0748
	12/13/2019	<0.151	<0.151	0.0946	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	3/18/2020	<0.150	<0.150	0.0836	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	<0.0748	<0.0748	<0.112	<0.0748
	6/12/2020	<0.150	<0.150	0.119	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	<0.0748	<0.0748	<0.112	<0.0748
	9/11/2020	<0.155	<0.155	0.115	<0.0777	<0.0777	<0.0777	<0.117	<0.117	<0.0777	<0.117	<0.0777	<0.0777	<0.0777	<0.0777	<0.0777	<0.155	<0.0777	<0.0777	<0.117	<0.0777
	12/3/2020	<0.151	<0.151	0.145	<0.0755	<0.0755	<0.0755	<0.113	<0.113	<0.0755	<0.113	<0.0755	<0.0755	<0.0755	<0.0755	<0.0755	<0.151	<0.0755	<0.0755	<0.113	<0.0755
	12/3/2020 DUP	<0.150	<0.150	0.149	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	<0.0748	<0.0748	<0.112	<0.0748
	3/11/2021	<0.150	<0.150	0.125	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	<0.0748	<0.0748	<0.112	<0.0748
	6/11/2021	<0.160	<0.160	0.134 X	<0.0800	<0.0800	<0.0800	<0.120	<0.120	<0.0800	<0.120	<0.0800	<0.0800	<0.0800	<0.0800	<0.0800	<0.160	<0.0800	<0.0800	<0.120	<0.0800
	9/23/2021	<0.162	<0.162	0.103	<0.0808	<0.0808	<0.0808	<0.121	<0.121	<0.0808	<0.121	<0.0808	<0.0808	<0.0808	<0.0808	<0.0808	<0.162	<0.0808	<0.0808	<0.121	<0.0808
	11/30/2021	<0.163	<0.163	0.0831	<0.0816	<0.0816	<0.0816	<0.122	<0.122	<0.0816	<0.122	<0.0816	<0.0816	<0.0816	<0.0816	<0.0816	<0.163	<0.0816	<0.0816	<0.122	<0.0816
3/2/2022	<0.163	<0.163	0.0984	<0.0816	<0.0816	<0.0816	<0.122	<0.122	<0.122	<0.0816	<0.0816	<0.0816	<0.0816	<0.0816	<0.0816	<0.163	<0.0816	<0.0816	<0.122	<0.0816	
3/2/2022 DUP	<0.165	<0.165	0.119	<0.0825	<0.0825	<0.0825	<0.124	<0.124	<0.124	<0.0825	<0.0825	<0.0825	<0.0825	<0.0825	<0.0825	<0.165	<0.0825	<0.0825	<0.124	<0.0825	
MW-89	7/2/2019	<0.157	<0.157	<0.0784	<0.0784	<0.0784	<0.0784	<0.118	<0.118	<0.0784	<0.118	<0.0784	<0.0784	<0.0784	<0.0784	<0.0784	<0.157	<0.0784	<0.0784	<0.118	<0.0784
	9/10/2019	<0.178	<0.178	<0.0889	<0.0889	<0.0889	<0.0889	<0.133	<0.133	<0.0889	<0.133	<0.0889	<0.0889	<0.0889	<0.0889	<0.0889	<0.178	<0.0889	<0.0889	<0.133	<0.0889
	12/16/2019	<0.154	<0.154	<0.0769	<0.0769	<0.0769	<0.0769	<0.115	<0.115	<0.0769	<0.115	<0.0769	<0.0769	<0.0769	<0.0769	<0.0769	<0.154	<0.0769	0.102	<0.115	<0.0769
	3/18/2020	<0.150	<0.150	<0.0748	<0.0748	<0.0748	<0.0748	<0.112	<0.112	<0.0748	<0.112	<0.0748	<0.0748	<0.0748	<0.0748	<0.0748	<0.150	<0.0748	<0.0748	<0.112	<0.0748
	6/11/2020	<0.0385	<0.0385	0.0481	<0.0192	<0.0192	<0.0192	<0.0288	<0.0288	<0.0192	<0.0288	<0.0192	<0.0192	0.0217	<0.0192	<0.0192	<0.0385	0.0426	0.0257	<0.0288	<0.0192
	9/9/2020	<0.0377	<0.0377	0.0427	<0.0189	0.0195	<0.0189	0.0323	<0.0283	0.0285	<0.0283	<0.0189	<0.0189	0.0382	<0.0189	<0.0189	<0.0377	0.0553	0.0456	<0.0283	<0.0189
	12/1/2020	<0.0412	<0.0412	0.0651	<0.0206	<0.0206	<0.0206	<0.0309	<0.0309	<0.0206	<0.0309	<0.0206	<0.0206	<0.0206	<0.0206	<0.0206	<0.0412	0.0402	<0.0206	<0.0309	<0.0206
	3/11/2021	<0.0381	<0.0381	0.0453	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	0.0275	<0.0190	<0.0190	<0.0381	0.0419	0.0337	<0.0286	<0.0190
	6/11/2021	<0.0396	<0.0396	0.0909 X	<0.0198	0.0215 X	<0.0198	<0.0297	<0.0297	<0.0198	<0.0297	<0.0198	<0.0198	0.0273 X	<0.0198	<0.0198	<0.0396	0.0560 X	0.0336 X	<0.0297	<0.0198
	9/22/2021	<0.0396	<0.0396	0.0392	<0.0198	<0.0198	<0.0198	<0.0283	<0.0283	<0.0198	<0.0283	<0.0198	<0.0198	0.0207	<0.0198	<0.0198	<0.0396	0.0340	0.0215	<0.0283	<0.0198
	12/1/2021	<0.0381	<0.0381	0.0774	<0.0190	<0.0190	<0.0190	<0.0286	<0.0286	<0.0190	<0.0286	<0.0190	<0.0190	0.0291	<0.0190	<0.0190	<0.0381	0.0459	0.0322	<0.0286	<0.0190
	3/2/2022	<0.0404	<0.0404	0.105	<0.0202	<0.0202	<0.0202	<0.0303	<0.0303	<0.0303	<0.0202	<0.0202	<0.0202	0.0255	<0.0202	<0.0202	<0.0404	0.0574	0.0255	<0.0303	<0.0202
MW-93	12/29/2021	<0.167	<0.167	<0.0833	<0.0833	<0.0833	<0.0833	<0.125	<0.125	<0.0833	<0.125	<0.0833	<0.0833	<0.0833	<0.0833	<0.0833	<0.167	<0.0833	<0.0833	<0.125	<0.0833
	3/2/2022	<0.163	<0.163	0.115	<0.0816	<0.0816	<0.0816	<0.122	<0.122	<0.122	<0.0816	<0.0816	<0.0816	<0.0816	<0.0816	<0.0816	<0.163	<0.0816	<0.0816	<0.122	<0.0816
ROD Cleanup Level ¹⁰ .		NA	2.1	23	NA	0.73	0.0012	0.00012	0.0012	0.4	0.0013	0.0013	0.00012	6.2	3.9	0.0012	12	6.3	10	NA	NA
JSCS SLV ¹¹ .		NA	0.2	0.2	0.2	0.2	0.018	0.018	0.018	0.2	0.018	0.018	0.018	0.2	0.2	0.018	0.2	0.2	0.2	3.4	3.7

Notes:

1. PAHs = polycyclic aromatic hydrocarbons by EPA Method 8270 SIM.

2. µg/L (ppb) = micrograms per liter (parts per billion).

3. -- = not analyzed or not applicable.

4. **Bold** denotes analyte detected above laboratory reporting limit.

5. J = result is less than the reporting limit, but greater than or equal to the detection limit.

6. Z = the chromatographic response does not resemble a typical fuel pattern.

7. F-11 = hydrocarbon pattern indicates sample is possibly weathered diesel or from another related compound.

8. F-13 = The sample chromatogram does not resemble the fuel standard used for quantitation. Value is estimated.

9. H = Holding time violation. Reported values are minimum concentrations.

10. ROD Cleanup Levels from U.S. EPA Errata #2 for the Record of Decision Table 17 for Portland Harbor Superfund Site, Portland, Oregon, January 2020. The level shown is the Groundwater Cleanup Level unless one was not available, in which case the Surface Water Cleanup Level was used, per DEQ Guidance.

11. JSCS SLV = Screening Level Values from Portland Harbor Joint Source Control Strategy (JSCS), December 2005.

12. Shading denotes analyte detected above screening criteria. As instructed by DEQ, concentrations of analytes were compared to the Portland Harbor Cleanup Level. If neither a Groundwater or Surface Water Cleanup Level was available, the data were compared to the Joint Source Control Strategy Screening Level Value.

13. M-04 = Due to matrix interference, this analyte cannot be accurately quantified. The reported result may contain a high bias.

14. NA = Cleanup Level and SLV not available for this analyte.

15. < = constituent was not detected at a concentration greater than laboratory method reporting limit shown.

16. X = Due to QC results that were outside acceptable limits, samples were re-run. This second run was one day past acceptable hold times; results are considered estimated values.

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
AREA 1																							
MW-22	12/15/2015	<1.00	<1.00	1.17	1.03	9.26	4.04	<0.200	<0.200	3.13	2.81	0.944 J	<1.00	0.311	<0.200	206	0.733 J	–	–	0.978 J	<1.00	13.8	4.57
	12/7/2016	<1.00	<1.00	1.43	1.39	5.99	2.72	<0.200	<0.200	<1.00	<1.00	0.780 J	0.544 J	0.25	<0.200	145	0.767 J	–	–	<1.00	<1.00	7.57	3.40 J
	12/14/2017	<1.00	<1.00	9.54	1.52	388	3.7	1.26	<0.200	30.4	<1.00	61.6	<1.00	31.7 B	<0.200	4,290	3.49	–	–	45.8 B-02	<1.00	318	<4.00
	12/20/2018	<1.00	<1.00	1.94	1.49	32.9 B-02	6.76	<0.200	<0.200	2.38	<1.00	9.57	1.55	2.89	0.334	302	51.2	–	–	4.52	<1.00	60.0	8.52
	12/12/2019	<1.00	<1.00	2.40	<2.00	13.3	4.32	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.740	<0.200	76.3	2.02	–	–	<2.00	<2.00	7.78	<4.00
	12/2/2020	<1.00	<1.00	2.31	2.20	5.22	3.32	<0.200	<0.200	1.01	<1.00	<2.00	<2.00	<0.200	<0.200	29.2	3.18	–	–	<2.00	<2.00	5.04	<4.00
	11/30/2021	<1.00	<1.00	2.26	2.28	7.02	2.88	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.331	<0.200	123.0	<1.00	–	–	<2.00	<2.00	14.1	<4.00
MW-42	12/15/2015	<1.00	<1.00	0.722 J	0.622 J	30.1	29.6	<0.200	<0.200	0.878 J	0.756 J	<1.00	<1.00	<0.200	<0.200	3.12	0.911 J	–	–	<1.00	<1.00	<4.00	5.91
	12/7/2016	<1.00	<1.00	0.922 J	1.00	44.2	45.6	<0.200	<0.200	0.584 J	0.622 J	<1.00	0.522 J	<0.200	<0.200	1.21	1.2	<0.0800	<0.0800	<1.00	0.578 J	2.68 J	4.19
	12/14/2017	<1.00	<1.00	1.12	1.21	44.2	45.4	<0.200	<0.200	1.1	1.15	<1.00	<1.00	0.257	<0.200	18.9	29.2	<0.0800	–	<1.00	<1.00	4.99	<4.00
	12/20/2018	<1.00	<1.00	1.04	<1.00	49.2 B-02	47.0	<0.200	<0.200	<1.00	<1.00	1.28	<1.00	<0.200	<0.200	92.9	55.5	–	–	1.07	<1.00	<4.00	<4.00
	12/11/2019	<1.00	<1.00	<1.00	<1.00	46.9	43.1	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	166	154	–	–	<1.00	<1.00	<4.00	<4.00
	12/2/2020	<1.00	<1.00	1.12	<1.00	39.2	36.9	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	13.6	<1.00	<0.0800	–	<2.00	<2.00	<4.00	<4.00
	11/30/2021	<1.00	<1.00	<1.00	<1.00	64.6	66.1	<0.200	<0.200	<2.00	<1.00	3.58	3.10	<0.200	<0.200	6.81	<1.00	<0.0800	–	<2.00	<2.00	11.1	6.80
MW-52	1/21/2019	–	<1.00	–	<1.00	–	52.6	–	<0.200	–	<1.00	–	1.25	–	<0.200	–	278	–	–	–	2.24	–	4.11
	3/5/2019	–	<1.00	–	<1.00	–	57.1	–	<0.200	–	<1.00	–	2.30	–	0.568	–	485	–	–	–	3.59	–	9.48
	6/19/2019	–	<1.00	–	<1.00	–	47.4	–	<0.200	–	<1.00	–	1.07	–	<0.200	–	183	–	–	–	1.64	–	<4.00
	9/10/2019	–	<1.00	–	<1.00	–	44.8	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	252	–	–	–	1.98	–	<4.00
	12/10/2019	<1.00	<1.00	<1.00	<1.00	50.2	45.3	<0.200	<0.200	<1.00	<1.00	1.35	<1.00	<0.200	<0.200	242	218	–	–	2.17	1.75	6.73	5.23
	3/17/2020	<1.00	<1.00	<1.00	<1.00	37.9	37.4	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	282	262	–	–	2.08	<2.00	<4.00	<4.00
	6/10/2020	<1.00	<1.00	<1.00	<1.00	59.9	56.9	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	189	183	–	–	<2.00	<2.00	7.63	5.62
	9/10/2020	<1.00	<1.00	<1.00	<1.00	41.1	39.9	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	251	242	–	–	2.01	<2.00	<4.00	<4.00
	12/1/2020	<1.00	<1.00	<1.00	<1.00	49.0	45.7	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	214	195	–	–	<2.00	<2.00	4.44	<4.00
	3/10/2021	<1.00	<1.00	<1.00	<1.00	38.3	37.3	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	241	224	–	–	<2.00	<2.00	<4.00	<4.00
	6/10/2021	<1.00	<1.00	<1.00	<1.00	44.4	43.3	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	219	227	–	–	3.19	<2.00	<4.00	<4.00
	9/23/2021	<1.00	<1.00	<1.00	<1.00	38.7	37.0	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	252	232	–	–	<2.00	<2.00	<4.00	<4.00
	12/2/2021	<1.00	<1.00	<1.00	<1.00	39.4	37.2	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	338	309	–	–	2.69	2.23	<4.00	<4.00
	3/2/2022	<1.00	<1.00	<1.00	<1.00	41.9	42.0	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	225	222	–	–	2.11	<2.00	<4.00	<4.00
MW-62	1/21/2019	–	<1.00	–	1.12	–	27.2	–	<0.200	–	<1.00	–	1.89	–	<0.200	–	221	–	–	–	3.52	–	25.1
	3/6/2019	–	<1.00	–	1.34	–	31.5	–	<0.200	–	<1.00	–	4.24	–	0.708	–	397	–	–	–	2.38	–	48.4
	6/19/2019	–	<1.00	–	1.19	–	27.8	–	<0.200	–	<1.00	–	1.41	–	<0.200	–	161	–	–	–	2.01	–	11.9
	9/10/2019	–	<1.00	–	1.26	–	40.4	–	<0.200	–	<1.00	–	2.52	–	<0.200	–	152	–	–	–	2.77	–	11.2
	12/10/2019	<1.00	<1.00	1.25	1.28	42.3	38.5	<0.200	<0.200	<1.00	<1.00	2.63	1.81	<0.200	<0.200	294	267	–	–	3.17	2.93	13.8	10.6
	3/17/2020	<1.00	<1.00	1.27	1.34	28.6	27.1	<0.200	<0.200	<1.00	<1.00	2.07	<2.00	<0.200	<0.200	89.9	58.0	–	–	<2.00	<2.00	16.1	9.24
	6/10/2020	<1.00	<1.00	1.38	1.34	20.3	19.5	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	185	175	–	–	2.13	<2.00	14.9	10.6
	9/10/2020	<1.00	<1.00	1.44	1.40	40.5	39.5	<0.200	<0.200	<1.00	<1.00	2.43	2.12	<0.200	<0.200	144	138	–	–	2.61	2.92	10.2	9.32
	12/1/2020	<1.00	<1.00	1.38	1.34	32.4	30.7	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	153	137	–	–	<2.00	2.09	10.1	7.46
	3/9/2021	<1.00	<1.00	1.36	1.52	25.2	26.1	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	45.0	40.4	–	–	<2.00	<2.00	6.77	5.94
	6/8/2021	<1.00	<1.00	1.16	1.24	31.7	29.6	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	231	220	–	–	3.11	2.65	10.5	10.2
	9/21/2021	<1.00	<1.00	1.34	1.25	40.2	36.9	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	155	141	–	–	4.33	3.73	8.50	7.46
	12/2/2021	<1.00	<1.00	1.27	1.38	23.8	32.6	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	138	752	–	–	2.02	2.15	9.33	8.15
	3/2/2022	<1.00	<1.00	1.34	1.34	32.2	29.3	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	37.3	27.9	–	–	<2.00	<2.00	7.47	5.87
ROD Cleanup Level ⁶		NA		0.018		NA		0.094		11		2.74		0.54		430		NA		NA		36.5	
JSCS SLV ⁷		6		0.045		NA		0.094		100		2.7		0.54		50		0.77		16		36	

Please refer to notes at end of table.

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc		
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Concentrations in µg/L (ppb)																								
AREA 1																								
MW-90	7/2/2019	–	<1.00	–	<1.00	–	26.0	–	<0.200	–	<1.00	–	7.38	–	<0.200	–	672	–	–	–	3.79	–	7.81	
	9/10/2019	–	<1.00	–	3.29	–	34.2	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,570	–	–	–	2.88	–	<4.00	
	12/12/2019	<1.00	<1.00	<2.00	<2.00	21.2	20.5	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	315	335	–	–	2.00	2.10	<4.00	<4.00	
	3/17/2020	<1.00	<1.00	1.39	<1.00	16.4	11.6	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	612	317	–	–	<2.00	<2.00	<4.00	<4.00	
	6/9/2020	<1.00	<1.00	1.05	<1.00	25.4	22.1	<0.200	0.581	<1.00	<1.00	<2.00	<2.00	0.204	0.279	379	237	–	–	<2.00	<2.00	<4.00	<4.00	
	9/9/2020	<1.00	<1.00	<1.00	<1.00	15.7	13.4	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	449	346	–	–	<2.00	<2.00	<4.00	<4.00	
	12/1/2020	<1.00	<1.00	<1.00	<1.00	13.5	11.2	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	137	99.5	–	–	<2.00	<2.00	7.07	<4.00	
	6/8/2021	<1.00	<1.00	<1.00	<1.00	8.14	7.52	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	74.6	32.4	–	–	<2.00	<2.00	<4.00	<4.00	
	9/22/2021	<1.00	<1.00	<1.00	<1.00	11.0	9.08	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	182	107	–	–	<2.00	<2.00	<4.00	<4.00	
	12/2/2021	<1.00	<1.00	<1.00	<1.00	12.5	9.96	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	162	24	–	–	<2.00	<2.00	<4.00	<4.00	
	12/2/2021 DUP	<1.00	<1.00	<1.00	<1.00	12.2	9.78	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	0.228	144	26	–	–	<2.00	<2.00	<4.00	<4.00
	3/2/2022	<1.00	<1.00	<1.00	<1.00	14.5	7.44	<0.200	<0.200	2.02	<2.00	2.51	<2.00	1.38	<0.200	87.1	18.6	–	–	2.16	<2.00	17.2	5.69	
MW-91	7/2/2019	–	<1.00	–	1.52	–	82.4	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,800	–	–	–	4.75	–	7.53	
	9/10/2019	–	<1.00	–	<1.00	–	56.0	–	<0.200	–	<1.00	–	3.04	–	<0.200	–	165	–	–	–	2.54	–	23.1	
	12/12/2019	<1.00	<1.00	<2.00	<2.00	47.2	45.4	<0.200	<0.200	<2.00	<2.00	2.79	2.28	<0.200	<0.200	91.5	60	–	–	<2.00	<2.00	13.3	12.8	
	3/17/2020	<1.00	<1.00	2.08	2.05	83.8	81.3	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	642	675	–	–	3.45	2.86	5.94	6.95	
	6/10/2020	<1.00	<1.00	2.12	1.93	79.2	74.7	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	0.648	773	747	–	–	2.81	2.46	6.00	<4.00	
	9/10/2020	<1.00	<1.00	1.95	2.02	85.7	84.5	0.291	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	247	253	–	–	2.69	2.98	39.5	36.3	
	12/1/2020	<1.00	<1.00	1.52	1.57	59.7	57.5	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	140	139	–	–	2.04	2.36	21.0	19.5	
	3/11/2021	<1.00	<1.00	1.66	1.51	93.2	91.7	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	282	267	–	–	7.62	7.51	4.99	<4.00	
	6/10/2021	<1.00	<1.00	1.46	1.47	88.4	86.9	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	281	292	–	–	13.5	7.28	<4.00	<4.00	
	9/23/2021	<1.00	<1.00	2.00	2.04	97.7	90.0	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	691	625	–	–	3.48	3.16	4.25	<4.00	
	12/2/2021	<1.00	<1.00	2.03	1.61	84.8	78.3	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.341	<0.200	459	411	–	–	5.12	4.96	6.23	<4.00	
	3/3/2022	<1.00	<1.00	1.71	1.41	45.6	43.5	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.351	<0.200	204	195	–	–	2.33	<2.00	52.3	49.7	
AREA 2																								
MW-17	12/1/2010	0.09 J	–	32.8	–	7.39	–	<1.0	–	3.31		3.70	–	2.98	–	2,360	–	–	–	2.78	–	9.11 J	–	
	12/1/2010 DUP	0.081 J	–	32.2	–	73.2	–	<1.0	–	3.26		3.53	–	2.92	–	2,520	–	–	–	2.83	–	8.6 J	–	
	6/2/2011	0.06 J	–	2.94	–	24.9	–	<1.0	–	1.14 J		1.49 J	–	0.61 J	–	2,490	–	–	–	4.50	–	3.31 J	–	
	12/14/2011	0.09 J	–	7.20	–	2.46	–	<1.0	–	2.73		2.42	–	1.69	–	2,190	–	–	–	3.18	–	7.06	–	
	12/14/2011 DUP	0.11 J	–	7.85	–	25.1	–	<1.0	–	2.60		2.63	–	1.97	–	2,260	–	–	–	3.24	–	8.04 J	–	
	3/27/2012	–	–	4.20	–	23.0	–	<0.19	–	<0.84		0.53 J	–	0.26 J	–	3,300	–	–	–	2.20	–	<3.1	–	
	3/27/2012 DUP	–	–	4.30	–	22.0	–	<0.19	–	<0.84		0.71 J	–	0.31 J	–	4,000	–	–	–	2.20	–	<3.1	–	
	7/6/2012	<1.0	–	19.6	–	44.3	–	<1.0	–	<2.0		2.86	–	1.94	–	4,810	–	–	–	5.90	–	7.31	–	
	12/5/2012	<1.0	–	16.1	–	36.1	–	<1.0	–	<2.0		<2.0	–	<1.0	–	5,130	–	–	–	3.01	–	4.17	–	
	6/19/2013	<1.0	–	17.2	–	25.9	–	<1.0	–	<2.0		<2.0	–	<1.0	–	6,260	–	–	–	5.03	–	<4.0	–	
	6/19/2013 DUP	<1.0	–	19.0	–	26.7	–	<1.0	–	<2.0		<2.0	–	<1.0	–	5,890	–	–	–	4.59	–	<4.0	–	
	12/16/2013	<1.00	–	11.8	–	21.1	–	<0.200	–	1.08		<1.00	–	0.378	–	3,010	–	–	–	2.11	–	<4.00	–	
	12/16/2013 DUP	<1.00	–	11.4	–	21.4	–	<0.200	–	<1.00		<1.00	–	0.456	–	2,990	–	–	–	2.11	–	<4.00	–	
	6/11/2014	<1.00	–	18.1	–	48.2	–	0.200	–	1.40		<1.00	–	<0.200	–	5,850	–	–	–	4.79	–	<4.00	–	
	6/11/2014 DUP	<1.00	–	18.9	–	49.5	–	0.344	–	1.46		<1.00	–	<0.200	–	5,940	–	–	–	5.44	–	<4.00	–	
	12/23/2014	<1.00	–	12.9	–	21.3	–	<0.200	–	<1.00		1.51 J	–	<0.200	–	4,060	–	–	–	1.09	–	<4.00	–	
	12/23/2014 DUP	<1.00	–	12.8	–	21.5	–	<0.200	–	<1.00		<0.200	–	<0.200	–	3,980	–	–	–	1.09	–	<4.00	–	
7/6/2015	<1.00	–	18.6	–	43.2	–	0.0444	–	0.711	–	1.06	–	0.267	–	4,100	–	–	–	1.53	–	3.06	–		
12/17/2015	<1.00	<1.00	11.7	5.09	30.6	4.76	0.0667 J	<0.200	1.00	<1.00	2.13	<1.00	0.922	<0.200	3,660	3,730	–	–	2.46	1.36	13.7	4.02		
ROD Cleanup Level ⁶ .		NA		0.018		NA		0.094		11		2.74		0.54		430		NA		NA		36.5		
JSCS SLV ⁷ .		6		0.045		NA		0.094		100		2.7		0.54		50		0.77		16		36		

Please refer to notes at end of table.

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
AREA 2																							
MW-17 (continued)	12/17/2015 DUP	<1.00	<1.00	11.8	4.56	30.9	4.53	<0.200	<0.200	0.844 J	<1.00	1.87	<1.00	0.767	<0.200	3,700	3,720	–	–	2.16	3.02	5.9	5.73
	6/22/2016	<1.00	<1.00	14	2.92	37.7	12.40	<0.200	<0.200	<1.00	<1.00	0.567	<1.00	0.2	<0.200	5,050	5,170	–	–	2.64	2.92	2.11	<4.00
	6/22/2016 DUP	<1.00	<1.00	17.5	2.88	41.9	11.60	<0.200	<0.200	<1.00	<1.00	<1.00	0.79	0.233	<0.200	4,820	4,710	–	–	1.63	1.70	<4.00	2.53
	12/9/2016	<1.00	<1.00	13.1	12.0	26.6	19.8	<0.200	<0.200	0.733 J	0.544 J	2.02	0.656 J	0.300	<0.200	3,700	3,680	–	–	1.69	1.29	6.68	5.61
	12/9/2016 DUP	<1.00	<1.00	13.1	11.9	26.1	19.5	<0.200	<0.200	0.611 J	<1.00	2.23	<1.00	0.344	<0.200	3,780	3,670	–	–	1.78	1.20	6.70	4.20
	6/28/2017	<1.00	<1.00	15.8	14.2	115	108	0.0667 J	<0.200	1.03	<1.00	1.88	0.9 J	0.244	<0.200	15,900	16,400	–	–	17.6	18.3	2.89 J	<4.00
	12/13/2017	<1.00	<1.00	12.9	15.1	27.9	26	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	5,580 Q42	6,330	–	–	2.48	1.12	<4.00	<4.00
	12/13/2017 DUP	<1.00	<1.00	12.4	15.2	27.8	26.3	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	5,640	6,270	–	–	2.33	1.22	<4.00	<4.00
	6/27/2018	<1.00	<1.00	20.6	23	59.6	54.6	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	6,570	6,810	<0.0800	<0.160	6.02	3.31	<4.00	<4.00
	12/19/2018	<1.00	<1.00	12.7	10.9	34.1 B-02	21.9	0.207	<0.200	1.73	<1.00	4.91	<1.00	2.18	<0.200	4,630	5,240	–	–	3.84	<1.00	10.9	<4.00
	12/19/2018 DUP	<1.00	<1.00	12.2	11.9	45.9 B-02	20.2	0.362	<0.200	3.61	<1.00	7.30	<1.00	4.63	<0.200	4,760	4,640	–	–	6.10	<1.00	15.0	<4.00
	3/6/2019	<1.00	<1.00	12.7	12.9	35.4	34.8	<0.200	<0.200	1.17	1.59	2.15	1.98	0.63	0.591	5,040	4,800	–	–	2.69	1.84	6.98	<4.00
	6/19/2019	<1.00	<1.00	16.9	14.4	70.3 B-02	61.0	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	5,840	5,130	–	–	2.45	1.98	<4.00	<4.00
	6/19/2019 DUP	<1.00	<1.00	16.5	14.7	68.2 B-02	62.3	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	6,010	5,170	–	–	2.44	1.71	<4.00	<4.00
	9/10/2019	<1.00	<1.00	12.6	12.9	26.1	25.1	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	7,210	6,680	–	–	1.23	<1.00	<4.00	<4.00
	9/10/2019 DUP	<1.00	<1.00	12.5	13.1	26.0	26.1	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	7,030	7,300	–	–	<1.00	<1.00	<4.00	<4.00
	12/16/2019	<1.00	<1.00	7.14	7.22	17.7	17.6	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	4,240	4,040	–	–	<1.00	<1.00	<4.00	<4.00
	12/16/2019 DUP	<1.00	<1.00	7.42	7.29	19.1	17.6	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	4,090	4,030	–	–	<1.00	<1.00	11.5	<4.00
	3/18/2020	<1.00	<1.00	9.87	9.74	32.1	31.0	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	4,150	4,560	–	–	<2.00	<2.00	<4.00	<4.00
	6/11/2020	<1.00	<1.00	8.34	8.41	72.4	67.8	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	4,500	4,060	–	–	2.49	2.16	<4.00	<4.00
	9/10/2020	<1.00	<1.00	11.1	11.6	38.9	36.4	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	7,330	7,100	–	–	<2.00	<2.00	5.07	<4.00
	12/3/2020	<1.00	<1.00	7.87	7.82	27.6	26.2	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	5,140	5,110	–	–	<2.00	<2.00	<4.00	<4.00
	12/3/2020 DUP	<1.00	<1.00	8.01	8.67	28.1	23.2	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	5,020	5,310	–	–	<2.00	<2.00	<4.00	<4.00
	3/10/2021	<1.00	<1.00	10.8	12.7	40.4	41.1	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	7,180	5,670	–	–	<2.00	<2.00	<4.00	<4.00
	3/10/2021 DUP	<1.00	<1.00	10.5	13.1	40.8	42.1	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	5,350	5,330	–	–	2.00	<2.00	<4.00	<4.00
	6/9/2021	<1.00	<1.00	11.0	10.5	50.3	48.7	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	6,700	6,380	–	–	2.57	2.21	<4.00	<4.00
	6/9/2021 DUP	<1.00	<1.00	10.6	9.91	49.6	46.0	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	6,560	6,520	–	–	2.56	2.23	<4.00	<4.00
	9/21/2021	<1.00	<1.00	9.36	9.69	27.3	26.1	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	6,550	6,170	–	–	3.33	<2.00	<4.00	<4.00
	9/21/2021 DUP	<1.00	<1.00	9.06	8.97	27.7	26.2	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	6,370	6,080	–	–	<2.00	<2.00	<4.00	<4.00
	12/1/2021	<1.00	<1.00	11.6	11.1	39.1	38.1	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	5,500	5,570	–	–	<2.00	<2.00	<4.00	<4.00
	12/1/2021 DUP	<1.00	<1.00	11.6	11.2	39.7	38.3	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	5,560	5,370	–	–	<2.00	<2.00	<4.00	<4.00
	3/1/2022	<1.00	<1.00	12.9	14.8	53.1	52.7	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	7,360	7,800	–	–	<2.00	<2.00	<4.00	<4.00
	3/1/2022 DUP	<1.00	<1.00	12.8	12.7	52.8	47.5	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	7,170	6,870	–	–	<2.00	<2.00	<4.00	<4.00
MW-23	12/17/2015	<1.00	<1.00	1.24	1.22	20.4	19.4	<0.200	<0.200	4.07	3.91	<1.00	<1.00	0.533	<0.200	2.81	0.722 J	–	–	0.756 J	0.611 J	7.38	5.08
MW-24	12/17/2015	<1.00	<1.00	1.51	<1.00	111	4.8	0.278	<0.200	15.8	10.1	2.54	0.711 J	2.51	<0.200	6,720	1,820	–	–	10.8	3.98	22	6.24
	12/7/2016	<1.00	<1.00	3.33	0.778 J	225	18.0	0.232	<0.200	14.2	<1.00	2.41	<1.00	0.728	<0.200	10,900	2,750	–	–	11.9	3.79	15.3	3.89 J
	12/13/2017	<1.00	<1.00	2.18	<1.00	183	20.7	0.514	<0.200	13.6	<1.00	9.82	<1.00	2.29	<0.200	9,860	3,330	–	–	17.0 B-02	3.90	30.1	<4.00
	12/20/2018	<1.00	<1.00	1.43	<1.00	135 B-02	21.7	<0.200	<0.200	5.29	<1.00	1.59	<1.00	0.506	<0.200	6,260	3,040 Q-42	–	–	10.2	3.94	12.7	<4.00
	12/10/2019	<1.00	<1.00	2.26	<1.00	166	19.4	<0.200	<0.200	8.73	<1.00	1.09	<1.00	0.555	<0.200	11,200	2,840	–	–	10.2	2.85	8.75	<4.00
	12/3/2020	<1.00	<1.00	1.05	<1.00	56.6	25.4	<0.200	<0.200	2.85	1.08	<2.00	<2.00	<0.200	<0.200	5,390	3,390	–	–	5.63	3.60	<4.00	<4.00
	12/2/2021	<1.00	<1.00	3.06	<1.00	106	20.5	<0.200	<0.200	8.34	<1.00	<2.00	<2.00	0.295	<0.200	8,190	3,110	–	–	11.6			

Please refer to notes at end of table.

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
AREA 2																							
MW-66	12/8/2009	<20	–	112	–	1,900	–	5.2 J	–	234	–	415	–	303	–	14,600	–	–	–	249	–	895	–
	6/3/2010	0.60 J	–	69	–	1,870	–	2.9 J	–	193	–	342	–	214	–	9,540	–	–	–	231	–	825	–
	12/1/2010	0.198 J	–	63.6	–	579	–	<2.0	–	36.9	–	64.7	–	44.4	–	6,880	–	–	–	50.4	–	167	–
	6/2/2011	0.06 J	–	<1.0	–	<1.0	–	<1.0	–	<1.0	–	<1.0	–	<1.0	–	0.32 J	–	–	–	<2.0	–	<1.0	–
	12/15/2011	0.11 J	–	32.7	–	147	–	<1.0	–	3.24	–	3.82	–	1.74	–	4,040	–	–	–	5.10	–	9.23 J	–
	3/27/2012	–	–	32.0	–	320	–	0.21	–	25.0	–	37.0	–	19.0	–	4,900	–	–	–	24.0	–	79.0	–
	7/6/2012	<1.0	–	23.1	–	144	–	<1.0	–	<2.0	–	2.11	–	<1.0	–	3,460	–	–	–	4.70	–	10.6	–
	12/5/2012	<1.0	–	22.2	–	190	–	<1.0	–	6.00	–	11.8	–	6.83	–	3,940	–	–	–	10.1	–	23.4	–
	6/19/2013	<1.0	–	12.4	–	138	–	<1.0	–	4.24	–	6.81	–	3.81	–	2,980	–	–	–	5.99	–	14.0	–
	12/16/2013	<1.00	–	30.8	–	241	–	0.311	–	15.3	–	26.6	–	14.9	–	4,020	–	–	–	20.1	–	60.4	–
	6/11/2014	<1.00	–	15.1	–	116	–	<1.00	–	1.02	–	2.96	–	0.389	–	–	–	–	–	3.94	–	6.43	–
	12/23/2014	<1.00	–	17.5	–	127	–	<0.200	–	0.856 J	–	1.67	–	0.500	–	3,690	–	–	–	3.79	–	12.2	–
	6/30/2015	<1.00	–	12.0	–	60.1	–	<0.200	–	<1.00	–	1.56	–	0.122	–	2,840	–	–	–	1.17	–	7.38	–
	12/17/2015	<1.00	<1.00	28.8	8.67	135	42.3	<0.200	<0.200	2.74	<1.00	4.79	<1.00	2.77	<0.200	3,430	3,490	–	–	4.88	2.9	11.6	2.73 J
	6/22/2016	<1.00	<1.00	12.1	1.68	76.8	12.6	<0.200	<0.200	1.16	<1.00	1.91	<1.00	0.989	<0.200	1,680	1,490	–	–	1.63	0.833	5.74	<4.00
	12/12/2016	<1.00	<1.00	14.6	14.0	77.1	68.6	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,860	1,730	–	–	3.57	3.33	2.73 J	2.77 J
	6/27/2017	<1.00	<1.00	14.2	13.9	37.1	37.5	0.0556 J	<0.200	0.678 J	<1.00	0.944 J	<1.00	0.222	<0.200	953	941	–	–	1.27	1.03	5.38	<4.00
	12/13/2017	<1.00	<1.00	11.6	11.4	45.2	43.5	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,150	1,090	–	–	<1.00	<1.00	<4.00	<4.00
	6/27/2018	<1.00	<1.00	12.0	12.6	46.3	46.4	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,120	1,110	<0.0800	<0.160	<1.00	<1.00	<4.00	<4.00
	12/17/2018	<1.00	<1.00	12.8	11.0	120	67.0	<0.200	<0.200	6.83	1.39 Q-17	16.0	1.16 Q-17	7.50	<0.200	1,600 Q-42	1,450 Q-42	–	–	7.39	<1.00	41.4	4.37
	6/20/2019	<1.00	<1.00	9.97	9.67	49.3 B-02	48.2	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,150	1,180	–	–	<1.00	<1.00	<4.00	<4.00
	12/12/2019	<1.00	<1.00	9.84	10.1	74.7	71.5	<0.200	<0.200	<2.00	<2.00	<2.00	<1.00	0.217	<0.200	1,730	1,180	–	–	<2.00	<1.00	5.05	<4.00
	6/10/2020	<1.00	<1.00	10.1	10.1	49.4	47.5	<0.200	<0.200	<1.00	<1.00	3.32	<2.00	0.639	<0.200	1,220	1,220	–	–	<2.00	<2.00	23.0	4.35
	12/3/2020	<1.00	<1.00	10.8	10.1	79.1	72.8	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	0.887	<0.200	1,900	1,780	–	–	<2.00	<2.00	4.85	<4.00
	6/9/2021	<1.00	<1.00	7.78	8.11	38.4	35.9	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	932	918	–	–	<2.00	<2.00	<4.00	<4.00
	12/1/2021	<1.00	<1.00	11.4	11.7	57.4	56.2	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,570	1,560	–	–	<2.00	<2.00	<4.00	<4.00
MW-81	12/8/2009	<5.0	–	22.4	–	643	–	<5.0	–	72.8	–	112	–	52.8	–	4,610	–	–	–	82.4	–	244	–
	12/8/2009 DUP	<5.0	–	23.8	–	750	–	<5.0	–	83.6	–	134	–	56.9	–	5,060	–	–	–	97.3	–	291	–
	12/1/2010	0.08 J	–	12.1	–	166	–	<1.0	–	9.9	–	15	–	6.1	–	2,710	–	–	–	10.1	–	29.2	–
	12/15/2011	0.06	–	11.6	–	54.7	–	<1.0	–	<2.0	–	0.58 J	–	<1.0	–	1,920	–	–	–	0.78 J	–	<10	–
	3/28/2012	–	–	13.0	–	110	–	<0.19	–	4.00	–	4.90	–	1.70	–	2,900	–	–	–	4.10	–	10.0	–
	7/6/2012	<1.0	–	11.7	–	74.2	–	<1.0	–	<2.0	–	<2.0	–	<1.0	–	2,390	–	–	–	<2.0	–	<4.0	–
	12/5/2012	<1.0	–	11.1	–	67.7	–	<1.0	–	<2.0	–	<2.0	–	<1.0	–	1,910	–	–	–	<2.0	–	<4.0	–
	12/16/2013	<1.00	–	12.1	–	73.4	–	<0.200	–	2.51	–	6.87	–	0.878	–	2,230	–	–	–	2.83	–	27.2	–
	12/23/2014	<1.00	–	11.7	–	92.3	–	<0.200	–	0.811 J	–	0.889 J	–	0.278	–	2,960	–	–	–	1.37	–	3.18 J	–
	12/17/2015	<1.00	<1.00	15	4.86	139	48.9	<0.200	<0.200	1.18	<1.00	0.744 J	<1.00	0.333	<0.200	3,840	3,920	–	–	3.17	2.46	3.18 J	2.42 J
	12/9/2016	<1.00	<1.00	8.70	8.16	101	91.3	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	3,480	3,380	–	–	1.00	0.811 J	2.71 J	2.74 J
	12/13/2017	<1.00	<1.00	15.1	6.52	547	103	0.642	<0.200	55.5	<1.00	96.1	<1.00	34.6	<0.200	4,650	2,900	–	–	85.3	<1.00	244	<4.00
	12/17/2018	<1.00	<1.00	5.06	4.63	102	97.4	<0.200	<0.200	<1.00	<1.00	2.29	<1.00	<0.200	<0.200	2,600	2,620	–	–	<1.00	<1.00	8.62	<4.00
	12/16/2019	<1.00	<1.00	4.15	4.22	95.6	93.3	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	2,920	2,940	–	–	<1.00	<1.00	<4.00	<4.00
	12/3/2020	<1.00	<1.00	4.36	4.15	84.6	77.2	<0.200	<0.200	<1.00	<1.00	3.24	<2.00	0.329	<0.200	2,730	2,720	–	–	<2.00	<2.00	14.7	<4.00
12/2/2021	<1.00	<1.00	5.73	5.43	62.7	641.1	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	2,040	1,890	–	–	<2.00	<2.00	<4.00	<4.00	
ROD Cleanup Level ⁶ .		NA		0.018		NA		0.094		11		2.74		0.54		430		NA		NA		36.5	
JSCS SLV ⁷ .		6		0.045		NA		0.094		100		2.7		0.54		50		0.77		16		36	

Please refer to notes at end of table.

Table E-4

Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
AREA 2																							
MW-82	7/2/2019	–	<1.00	–	41.2	–	190	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,790	–	–	–	3.54	–	26.6
	9/10/2019	–	<1.00	–	26.4	–	170	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	2,250 Q-42	–	–	–	1.66	–	12.3
	12/12/2019	5.98	5.81	233	246	474	467	<0.200	<0.200	<2.00	<1.00	<2.00	<1.00	0.365	<0.200	2,280	2,220	–	–	11.1	11.1	80.5	78.1
	3/17/2020	19.3	19.3	246	252	438	439	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	0.648	<0.200	1,320	1,360	–	–	15.1	14.2	140	142
	6/10/2020	19.0	18.4	229	236	450	436	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	0.426	0.252	1640	1620	–	–	14.4	14.8	120	133
	9/9/2020	9.25	9.02	71.6	77.5	274	268	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	0.498	<0.200	1,740	1,660	–	–	5.16	5.17	43.4	37.1
	9/9/2020 DUP	9.46	9.08	71.2	80.4	282	269	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	0.488	<0.200	1,660	1,610	–	–	5.48	5.41	47.7	37.5
	12/1/2020	21.6	20.9	258	230	519	441	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	0.879	0.588	1,490	1,330	–	–	15.7	14.9	153	143
	3/10/2021	16.9	16.4	225	248	329	337	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	1.13	0.348	1,260	1,170	–	–	12.0	11.4	104	96.9
	6/9/2021	11.0	11.7	100	98.8	255	255	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.79	<0.200	974	1,000	–	–	8.51	8.00	70.9	66.7
	9/22/2021	15.0	13.8	71.5	65.8	273	252	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.832	<0.200	1,310	1,280	–	–	17.2	5.98	68.5	62.2
	12/1/2021	19.2	18.2	213	199	441	403	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.17	0.572	1,490	1,450	–	–	14.1	12.3	122	108
	3/2/2022	17.7	16.4	154	146	260	248	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.765	<0.200	1,170	1,060	–	–	8.21	7.77	81.4	72.9
	6/22/2022	14.8	14.3	150	162	230	229	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.989	<0.200	1,050	1,070	–	–	7.87	7.93	69.5	62.6
	9/21/2022	9.34	9.28	65.9	67.9	203	200	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.82	<0.200	1350	1,450	–	–	4.11	4.42	64.6	43.5
	11/29/2022	16.7	14.0	210	218	341	345	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.83	0.242	1,300	1,350	–	–	10.3	9.55	110	101
	3/7/2023	16.6	13.2	177	161	361	287	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.63	<0.200	1,310	1,470	–	–	10.6	9.88	107	82.3
	6/2/2023	13.9	13.7	136	139	255	248	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.693	0.304	1,130	1,150	–	–	12.3 B, Q-29	7.92	67.4	67.2
	8/31/2023	11.3	11.5	84.7	85	184	189	<0.200	<00.200	<2.00	<2.00	<2.00	<2.00	1.93	0.235	1,140	1,220	<0.0800	–	5.02	4.99	57.4	49.4
	8/31/2023 DUP	12.1	11.6	85.8	83.3	189	193	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.69	0.231	1,150	1,200	<0.0800	–	5.38	4.92	56.2	51.1
MW-83	7/2/2019	–	<1.00	–	22.0	–	102	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	4,330	–	–	–	<2.00	–	<4.00
	9/11/2019	–	<1.00	–	24.7	–	89.6	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	3,950	–	–	–	2.27	–	<4.00
	12/12/2019	<1.00	<1.00	23.8	24.2	90.9	89.6	<0.200	<2.00	<1.00	<10.0	<1.00	<10.0	<0.200	<0.200	4,050	4,190	–	–	2.21	<10.0	<4.00	<40.0
	3/18/2020	<1.00	<1.00	20.2	20.5	84.5	83.3	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	3,660	4,040	–	–	2.24	<2.00	<4.00	<4.00
	3/18/2020 DUP	<1.00	<1.00	22.4	22.3	84.5	81.4	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	3,860	4,300	–	–	2.13	<2.00	<4.00	<4.00
	6/11/2020	<1.00	<1.00	15.6	16.4	76.9	76.1	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	2,870	2,660	–	–	<2.00	<2.00	4.44	<4.00
	6/11/2020 DUP	<1.00	<1.00	16.1	15.6	77.6	72.6	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	2,880	2,680	–	–	<2.00	<2.00	<4.00	<4.00
	9/9/2020	<1.00	<1.00	20.2	20.8	94.1	85.7	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	3,610	3,780	–	–	<2.00	<2.00	<4.00	<4.00
	12/1/2020	<1.00	<1.00	19.4	18.1	88.1	84.8	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	3,780	3,560	–	–	<2.00	<2.00	<4.00	<4.00
	3/10/2021	<1.00	4.15	22.6	23.0	124	124	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	3,460	3,350	–	–	<2.00	<2.00	4.68	4.97
	6/9/2021	<1.00	<1.00	33.0	31.1	110	107	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	3,560	3,420	–	–	2.96	2.48	<4.00	<4.00
	9/22/2021	<1.00	<1.00	17.6	16.9	59.5	55.8	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	3,500	3,450	–	–	6.51	<2.00	<4.00	<4.00
	12/1/2021	<1.00	<1.00	21.3	21.8	68.9	68.3	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	3,320	3,400	–	–	<2.00	<2.00	4.06	4.80
3/1/2022	<1.00	<1.00	24.7	22.1	118	101	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.298	<0.200	3,190	2,990	–	–	<2.00	<2.00	9.44	12.3	
MW-84	7/2/2019	–	<1.00	–	1.10	–	49.2	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,370	–	–	–	2.04	–	7.27
	9/10/2019	–	<																				

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
AREA 2																							
MW-92	7/2/2019	–	1.82	–	2.24	–	91.2	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,430 Q-42	–	–	–	4.07	–	10.1
	9/10/2019	–	2.61	–	<1.00	–	48.3	–	<0.200	–	<1.00	–	5.69	–	<0.200	–	436	–	–	–	2.38	–	42.9
	12/12/2019	2.61	2.70	<2.00	<2.00	48.5	46.4	<0.200	<0.200	<2.00	<2.00	3.55	2.23	0.720	<0.200	56.8	61.9	–	–	<2.00	<2.00	6.69	14.6
	3/18/2020	1.93	1.92	<1.00	<1.00	71.7	69.9	<0.200	<0.200	<1.00	<1.00	3.89	2.66	0.856	<0.200	983	984	–	–	<2.00	<2.00	10.9	9.70
	6/11/2020	4.04	3.82	<1.00	<1.00	58.2	57.2	<0.200	<0.200	<1.00	<1.00	2.87	2.06	0.651	<0.200	152	164	–	–	<2.00	<2.00	14.6	12.5
	9/11/2020	<1.00	<1.00	1.13	1.01	93.5	89.7	<0.200	0.240	<1.00	<1.00	4.23	3.04	0.333	<0.200	1,240	1,250	–	–	<2.00	<2.00	7.06	6.12
	12/3/2020	2.26	2.45	<1.00	<1.00	76.7	67.6	<0.200	<0.200	<1.00	<1.00	3.39	2.97	0.256	<0.200	331	185	–	–	6.51	<2.00	17.6	14.8
	3/10/2021	1.25	1.32	1.47	1.24	110	110	<0.200	<0.200	<1.00	<1.00	2.88	<2.00	0.372	<0.200	2,830	2,790	–	–	<2.00	<2.00	15.3	13.7
	6/9/2021	<1.00	<1.00	4.08	3.26	132	125	<0.200	<0.200	<2.00	<2.00	4.28	<2.00	0.634	<0.200	7,330	7,080	–	–	<2.00	<2.00	25.0	18.1
	9/22/2021	3.22	3.10	<1.00	<1.00	71.6	67.9	<0.200	<0.200	<2.00	<2.00	5.70	5.00	0.453	<0.200	123	97.0	–	–	5.66	<2.00	10.3	7.90
	12/1/2021	2.72	2.40	1.22	<1.00	64.7	62.4	<0.200	<0.200	<2.00	<2.00	3.58	2.01	1.18	<0.200	1,680	1,690	–	–	<2.00	<2.00	21.8	14.2
	3/1/2022	3.54	3.55	1.49	<1.00	37.9	29.2	<0.200	<0.200	<2.00	<2.00	5.22	<2.00	2.19	0.271	43.7	23.6	–	–	<2.00	<2.00	24.2	15.9
	6/22/2022	2.19	<1.00	6.89	3.55	112	89.3	<0.200	<0.200	2.43	<2.00	7.12	<2.00	4.33	<0.200	2,780	2,710	–	–	<2.00	<2.00	43.6	15.8
	11/29/2022	2.95	2.76	1.83	<1.00	91.6	68.7	<0.200	<0.200	<2.00	<2.00	5.87	2.78	2.31	<0.200	607	542	–	–	<2.00	<2.00	24.0	16.8
	5/31/2023	<1.00	<1.00	6.62	4.99	111	95.9	<0.200	<0.200	<2.00	<2.00	3.01	<2.00	1.45	0.246	4,220	4,050	–	–	<2.00 B-02	<2.00	21.6	13.2
SMW-11	12/17/2015	<1.00	<1.00	17.1	3.48	43	11.9	<0.200	<0.200	0.833 J	<1.00	2.06	<1.00	0.811	0.233	2,130	2,210	–	–	2.36	1.81	4.08	2.96 J
	12/15/2017	<1.00	<1.00	17.2	15.6	45.5	44	<0.200	<0.200	1.17	<1.00	2.15	<1.00	1.38	0.419	2,200	2,240 Q-42	–	–	3.97	2.65	4.26	<4.00
SMW-12	12/5/2012	<1.12	–	58.0	–	268	–	<1.12	–	2.60	–	4.49	–	1.14	–	3,720	–	–	–	2.75	–	8.36	–
	12/17/2015	<1.00	<1.00	6.76	5.54	63.5	48	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,920	2,000	–	–	0.922 J	0.756 J	<4.00	<4.00
	12/9/2016	<1.00	<1.00	35.5	34.7	167	152	<0.200	<0.200	<1.00	<1.00	<1.00	0.578 J	<0.200	<0.200	4,870	4,680	–	–	1.02	0.8 J	3.18 J	3.49 J
	12/13/2017	<1.00	<1.00	33.0	31.5	209	195	<0.200	<0.200	3.91	<1.00	5.50	<1.00	2.23	<0.200	6,960	6,260	–	–	5.75	<1.00	26.3	<4.00
SCHNITZER ASD YARD																							
MW-10	8/20/2009	0.58 J	–	24	–	386	–	1.52	–	44.6	–	120	–	236	–	3,010	–	0.603	–	390	–	376	–
	6/3/2010	0.44 J	–	5.66 J	–	83.7	–	<0.2	–	3.92 J	–	8.88	–	9.68	–	1,890	–	<0.2	–	47.6	–	26.3	–
	12/1/2010	0.462 J	–	11.4	–	183	–	<2.0	–	15.2	–	31.5	–	47	–	2,850	–	0.165 J	–	125	–	108	–
	6/3/2011	0.39 J	–	2.96	–	84.3	–	<1.0	–	<2.0	–	<10	–	0.29 J	–	2,400	–	<0.2	–	1.67 J	–	3.63 J	–
	12/15/2011	0.25 J	–	3.55	–	75.4	–	<5.0	–	<10	–	<10	–	<5.0	–	2,720	–	<0.2	–	2.35	–	<50	–
	3/28/2012	–	–	2.70	–	65	–	<0.19	–	<0.84	–	<0.53	–	0.24 J	–	2,200	–	<0.055	–	0.88 J	–	<3.1	–
	7/6/2012	<1.0	–	3.47	–	59.8	–	<1.0	–	<2.0	–	<2.0	–	1.3	–	1,930	–	<0.08	–	<2.0	–	<4.0	–
	12/5/2012	<1.0	–	4.12	–	85.4	–	<1.0	–	<2.0	–	<2.0	–	<1.0	–	2,080	–	<0.08	–	<2.0	–	<4.0	–
	6/19/2013	<1.0	–	3.69	–	73.6	–	<1.0	–	<2.0	–	<2.0	–	<1.0	–	2,030	–	<0.08	–	2.91	–	<4.0	–
	12/13/2013	<1.00	–	3.06	–	81.6	–	<0.200	–	2.01	–	<1.00	–	<0.200	–	2,750	–	<0.0800	–	1.53	–	6.87	–
	6/11/2014	<1.00	–	3.68	–	67.8	–	<0.200	–	2.04	–	<1.00	–	<0.200	–	1,940	–	<0.0800	–	1.69	–	<4.00	–
	12/19/2014	<1.00	–	3.20	–	77.4	–	<0.200	–	0.633 J	–	13.8	–	0.544	–	2,060	–	<0.0800	–	2.98	–	3.22 J	–
	12/18/2015	<1.00	<1.00	3.71	1.72	77.0	22.5	<0.200	<0.200	0.678 J	<1.00	0.700 J	<1.00	0.456	<0.200	2,740	2,650	<0.0800	<0.0800	1.11	6.07	4.27	2.30 J
	12/12/2016	<1.00	<1.00	3.27	3.09	66.1	61.2	<0.200	<0.200	0.511 J	<1.00	1.06	<1.00	0.189 J	<0.200	1,700	1,640	<0.0800	<0.0800	1.19	0.789 J	4.21	3.36 J
	6/28/2017	<1.00	<1.00	3.06	2.86	52.6	41.5	<0.200	<0.200	0.967 J	<1.00	1.37	4.06	0.311	0.144 J	1,160	1,180	<0.0800	–	1.73	1.33	4.52	3.76 J
	6/28/2017 DUP	<1.00	<1.00	3.14	3.00	52.8	42.1	<0.200	0.256	0.789 J	0.867 J	1.77	0.711 J	0.289	0.322	1,150	1,210	<0.0800	–	1.54	1.69	4.51	<4.00
	12/14/2017	<1.00	<1.00	3.03	2.78	58	53.9	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	0.301	<0.200	1,560	1,520	<0.0800	–	1.40	<1.00	<4.00	<4.00
	6/26/2018	<1.00	1.99	2.52	2.29	49.7	36.7	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	0.363	<0.200	1,280	1,310	<0.0800	<0.160	<1.00	<1.00	<4.00	<4.00
	12/18/2018	<1.00	<1.00	2.77	2.46	55.0	50.4	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,780	1,750	<0.0800	–	1.18	<1.00	<4.00	<4.00
	6/21/2019	<1.00	<1.00	2.72	2.68	43.7 B-02	36.6	<0.200	<0.200	<1.00	<1.00	<1.00											

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc		
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	
Concentrations in µg/L (ppb)																								
SCHNITZER ASD YARD																								
MW-11	12/8/2009	4.36	--	5.32	--	123	--	<2.0	--	16.8	--	62.1	--	16.4	--	1,480	--	<0.2	--	14.5	--	64.2	--	
	12/1/2010	0.087 J	--	1.67	--	41.2	--	<1.0	--	<2.0	--	2.54	--	0.557 J	--	286	--	<0.20	--	7.95	--	<1.0	--	
	12/15/2011	0.07 J	--	2.33	--	36.9	--	<1.0	--	1.86 J	--	2.85	--	0.5 J	--	946	--	<0.2	--	1.16 J	--	4.62	--	
	3/29/2012	--	--	0.13	--	33.0	--	<0.19	--	<0.84	--	2.40	--	0.11 J	--	1,100	--	<0.055	--	10.0	--	<3.1	--	
	7/6/2012	<1.0	--	<2.0	--	18.6	--	<1.0	--	<2.0	--	2.06	--	<1.0	--	949	--	<0.08	--	5.27	--	<4.0	--	
	12/5/2012	<1.0	--	<2.0	--	22.1	--	<1.0	--	<2.0	--	<2.0	--	<1.0	--	566	--	<0.08	--	8.36	--	<4.0	--	
	12/13/2013	<1.00	--	1.39	--	24.5	--	<0.200	--	<1.00	--	<1.00	--	<0.200	--	878	--	<0.0800	--	<1.00	--	<4.00	--	
	12/19/2014	<1.0	--	1.49	--	27.5	--	0.0444 J	--	<1.0	--	<1.0	--	0.156 J	--	934	--	<0.0800	--	<1.0	--	<4.0	--	
	12/16/2015	<1.00	<1.00	1.44	<1.00	44.7	12.4	0.478	<0.200	2.2	<1.00	52.1	<1.00	3.11	<0.200	1,220	576	0.0936	<0.0800	10.6	5.67	14.8	4.62	
	12/7/2016	<1.00	<1.00	0.621 J	0.611 J	21.2	20.7	<0.200	<0.200	<1.00	<1.00	2.10	1.21	0.170 J	<0.200	388	386	<0.0800	<0.0800	7.41	7.78	5.30	5.00	
	12/14/2017	<1.00	<1.00	1.37	<1.00	37.2	24.0	<0.200	<0.200	<1.00	<1.00	3.64	1.22	0.689	<0.200	269	251	<0.0800	--	7.25	7.16	4.07	<4.00	
	12/17/2018	<1.00	<1.00	1.56	1.44	35.7	28.9	<0.200	<0.200	<1.00	<1.00	7.82	<1.00	2.78	<0.200	1,080	1,080	<0.0800	--	1.01	<1.00	13.8	<4.00	
	12/11/2019	<1.00	<1.00	1.32	1.26	24.6	22.3	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	928	857	<0.0800	--	<1.00	<1.00	<4.00	<4.00	
12/2/2020	<1.00	<1.00	<1.00	<1.00	23.9	21.3	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	263	242	<0.0800	--	6.05	6.54	<4.00	<4.00		
11/30/2021	<1.00	<1.00	<1.00	<1.00	23.0	22.1	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.363	<0.200	448	448	<0.0800	--	7.36	7.04	<4.00	<4.00		
MW-14	8/20/2009	0.16 J	--	4.95	--	184	--	0.19 J	--	7.95 J	--	19.8	--	8.73	--	1,170	--	<0.20	--	9.48	--	48.5	--	
	1/21/2019	--	<1.00	--	3.94	--	107	--	<0.200	--	<1.00	--	<1.00	--	<0.200	--	648	--	--	<1.00	--	<4.00	--	
	3/5/2019	--	<1.00	--	3.05	--	92.5	--	<0.200	--	<1.00	--	<1.00	--	<0.200	--	585	--	--	<1.00	--	<4.00	--	
	3/5/2019 DUP	--	<1.00	--	3.10	--	94.3	--	<0.200	--	<1.00	--	<1.00	--	<0.200	--	598	--	--	<1.00	--	<4.00	--	
	6/20/2019	--	<1.00	--	3.35	--	104	--	<0.200	--	<1.00	--	<1.00	--	<0.200	--	751	--	--	--	1.37	--	<4.00	--
	9/11/2019	--	1.34	--	8.55	--	32.8	--	<0.200	--	<1.00	--	5.48	--	0.677	--	3.50	--	--	--	1.77	--	8.10	--
	12/11/2019	<1.00	<1.00	1.28	1.26	41.2	34.3	<0.200	<0.200	<1.00	<1.00	19.1	8.79	0.898	<0.200	24.7	17.0	--	--	1.81	<1.00	120	37.0	
	3/18/2020	<1.00	<1.00	1.90	1.93	87.0	86.9	<0.200	<0.200	<1.00	<1.00	9.24	<2.00	0.595	<0.200	462	485	--	--	3.23	2.73	506	500	
	3/18/2020 DUP	<1.00	<1.00	1.88	1.75	86.4	84.4	<0.200	<0.200	<1.00	<1.00	9.74	<2.00	0.621	<0.200	458	465	--	--	3.17	2.49	511	483	
	6/10/2020	<1.00	<1.00	1.24	1.1	44.1	38.6	<0.200	<0.200	<1.00	<1.00	15.1	5.31	0.785	0.22	124	118	--	--	2.29	<2.00	611	530	
	6/10/2020 DUP	<1.00	<1.00	1.30	1.06	43.4	39.2	<0.200	<0.200	<1.00	<1.00	13.8	4.99	0.718	0.22	124	120	--	--	2.31	<2.00	603	532	
	9/9/2020	<1.00	<1.00	1.12	1.02	178	181	<0.200	<0.200	1.08	<1.00	18.8	2.12	0.418	--*	740	767	--	--	10.9	10.9	2,230	2,070	
	9/9/2020 DUP	<1.00	<1.00	1.23	1.15	187	177	<0.200	<0.200	1.10	<1.00	19.5	<2.00	0.428	<0.200	759	779	--	--	11.5	10.3	2,210	1,950	
	12/3/2020	<1.00	<1.00	2.38	2.23	355	318	<0.200	<0.200	<1.00	<1.00	10.7	<2.00	0.351	<0.200	758	740	--	--	10.5	9.86	2,130	2,000	
	3/11/2021	<1.00	<1.00	2.71	2.68	187	190	<0.200	<0.200	<1.00	<1.00	9.54	<2.00	0.563	<0.200	870	811	--	--	2.15	2.01	382	368	
	6/8/2021	<1.00	<1.00	3.83	3.85	298	315	<0.200	<0.200	<2.00	<2.00	10.7	2.31	0.488	<0.200	1,200	1,270	--	--	5.08	4.96	788	745	
Well decommissioned in January 2022																								
MW-72	8/20/2009	0.35 J	--	15.4	--	850	--	2.31	--	71	--	176	--	119	--	3,760	--	0.823	--	52.7	--	306	--	
	12/8/2009	<10.0	--	14.1	--	630	--	<10.0	--	62.3	--	139	--	94.7	--	3,040	--	<0.2	--	54.9	--	295	--	
	6/3/2010	0.4 J	--	10.3	--	349	--	0.6 J	--	24.9	--	52.1	--	39.9	--	2,170	--	0.301	--	21.8	--	118	--	
	12/2/2010	0.46 J	--	7.76	--	310	--	0.38 J	--	14.6	--	28.3	--	24.9	--	2,120	--	0.193 J	--	14.1	--	75.3	--	
	12/2/2010 DUP	0.32 J	--	7.12	--	277	--	0.38 J	--	12.6	--	26.6	--	22.5	--	2,130	--	0.145 J	--	12.0	--	72.0	--	
	6/2/2011	<1.0	--	6.30	--	211	--	<1.0	--	0.88 J	--	<2.0	--	<1.0	--	2,700	--	<0.20	--	1.96 J	--	<10	--	
	12/15/2011	<2.0	--	6.08	--	196	--	<2.0	--	<4.0	--	1.58 J	--	0.62 J	--	2,140	--	<0.2	--	2.48 J	--	8.02	--	
	12/15/2011 DUP	0.08 J	--	6.06	--	196	--	<1.0	--	2.62	--	1.31 J	--	0.59 J	--	2,140	--	<0.2	--	2.48 J	--	8.02 J	--	
	3/29/2012	--	--	6.70	--	200	--	<0.19	--	1.9 J	--	0.53 J	--	0.11 J	--	1,700	--	0.11 J	--	3.40	--	3.9 J	--	
	3/29/2012 DUP	--	--	6.50	--	200	--	<0.19	--	1.7 J	--	0.53 J	--	0.11 J	--	1,700	--	<0.055	--	3.50	--	3.9 J	--	
	7/6/2012	<1.0	--	10.9	--	188	--	<1.0	--	<2.0	--	<2.0	--	<1.0	--	1,390	--	<0.08	--	5.42	--	<4.0	--	
	7/6/2012 DUP	<1.0	--	10.9	--	188	--	<1.0	--	<2.0	--	<2.0	--	<1.0	--	1,370	--	<0.08	--	5.66	--	<4.0	--	
	12/5/2012	<1.0	--	9.26	--	184	--	<1.0	--	<2.0	--	<2.0	--	<1.0	--	1,620	--	<0.08	--	4.47	--	4.01	--	
	12/5/2012 DUP	<1.0	--	8.82	--	182	--	<1.0	--	<2.0	--	<2.0	--	<1.0	--	1,620	--	<0.08	--	4.61	--	<4.0	--	
6/19/2013	<1.0	--	6.26	--	162	--	<1.0	--	3.58	--	6.33	--	4.59	--	1,850	--	<0.08	--	4.47	--	14.5	--		
ROD Cleanup Level ⁶		NA		0.018		NA		0.094		11		2.74		0.54		430		NA		NA		36.5		
JSCS SLV ⁷		6		0.045		NA		0.094		100		2.7		0.54		50		0.77		16		36		

Please refer to notes at end of table.

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
SCHNITZER ASD YARD																							
MW-72 (continued)	12/13/2013	<1.00	--	7.24	--	178	--	<0.200	--	3.62	--	<1.00	--	0.28	--	1,830	--	<0.0800	--	2.87	--	<4.00	--
	12/13/2013 DUP	<1.00	--	7.14	--	176	--	<0.200	--	3.87	--	1.97	--	0.37	--	1,810	--	<0.0800	--	3.09	--	4.03	--
	6/11/2014	<1.00	--	7.03	--	179	--	<0.200	--	3.99	--	2.46	--	1.42	--	1,940	--	<00.800	--	3.12	--	4.89	--
	12/19/2014	<1.0	--	7.14	--	198	--	<0.200	--	1.09	--	0.556 J	--	0.356	--	1,790	--	<0.0800	--	2.66	--	2.87 J	--
	12/19/2014 DUP	<1.0	--	7.38	--	200	--	<0.200	--	1.07	--	<1.0	--	0.278	--	1,890	--	<0.0800	--	2.71	--	3.00 J	--
	12/16/2015	<1.00	<1.00	6.30	1.87	196	60.5	<0.200	<0.200	1.07	<1.00	<1.00	<1.00	<0.200	<0.200	2,240	2,260	<0.0800	<0.0800	2.11	1.80	<4.00	<4.00
	12/16/2015 DUP	<1.00	<1.00	6.34	2.08	193	66.4	<0.200	<0.200	1.12	<1.00	<1.00	<1.00	<0.200	<0.200	2,200	2,280	<0.0800	<0.0800	2.00	1.91	<4.00	5.66
	12/7/2016	<1.00	<1.00	6.68	6.24	206	186	0.0444 J	<0.200	1.73	0.856 J	2.63	<1.00	1.66	<0.200	2,040	1,990	<0.0800	<0.0800	2.71	1.83	8.72	2.81 J
	12/7/2016 DUP	<1.00	<1.00	6.01	6.01	183	183	0.0511 J	<0.200	1.45	1.00	2.36	<1.00	1.58	<0.200	2,140	2,000	<0.0800	<0.0800	2.07	1.74	8.18	3.34 J
	6/28/2017	<1.00	<1.00	7.63	8.57	202	199	<0.200	<0.200	1.06	1.00	0.733 J	0.589 J	0.27	<0.200	1,440	1,490	<0.0800	--	4.43	4.96	<4.00	<4.00
	12/14/2017	<1.00	<1.00	6.04	6.17	175	198	<0.200	<0.200	<1.00	<1.00	1.32	<1.00	0.523	<0.200	2,040	2,060	<0.0800	--	1.99	2.25	5.15	<4.00
	12/14/2017 DUP	<1.00	<1.00	6.12	5.99	176	181	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	0.705	<0.200	2,050	1,990	<0.0800	--	2.11	1.98	4.48	<4.00
	6/26/2018	<0.500	1.08	6.09	6.04	156	175	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,410	1,620	<0.0800	<0.160	1.75	2.11	<4.00	<4.00
	6/26/2018 DUP	<1.00	<1.00	5.85	5.87	176	169	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,620	1,580	<0.0800	<0.160	2.09	1.99	<4.00	<4.00
	12/18/2018	<1.00	<1.00	6.17	5.97	167	172	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,710	1,760	<0.0800	--	1.30	1.22	<4.00	<4.00
	12/18/2018 DUP	<1.00	<1.00	6.13	6.17	162	167	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,650	1,760	--	--	1.39	1.21	<4.00	<4.00
	6/21/2019	<1.00	<1.00	5.68	5.92	196 B-02	183	<0.200	<0.200	1.45	<1.00	1.67	<1.00	1.22	<0.200	2,180	2,140	<0.0800	--	1.63	1.13	4.32	<4.00
	12/13/2019	<1.00	<1.00	5.64	5.83	212	210	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,810	1,850	<0.0800	--	1.50	1.49	<4.00	<4.00
	12/13/2019 DUP	<1.00	<1.00	6.03	5.61	221	206	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,900	1,800 Q-42	--	--	1.39	1.44	<4.00	<4.00
	6/12/2020	<1.00	<1.00	6.18	6.46	228	225	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	1,750	1,750	<0.0800	--	2.32	2.26	<4.00	<4.00
	12/1/2020	<1.00	<1.00	6.40	6.24	208	202	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	1,850	1,830	<0.0800	--	<2.00	2.24	<4.00	<4.00
	6/11/2021	<1.00	<1.00	6.37	5.21	183	165	<0.200	<0.200	4.17	<2.00	7.28	<2.00	5.64	0.541	1,950	2,030	<0.0800	--	4.08	<2.00	22.2	<4.00
	12/1/2021	<1.00	<1.00	6.59	6.12	209	187	<0.200	<0.200	2.77	<2.00	3.34	<2.00	2.48	<0.200	2,090	1,860	<0.0800	--	3.26	<2.00	11.9	<4.00
MW-73	8/20/2009	0.29 J	--	11.9	--	643	--	1.06	--	46.6	--	94.2	--	85.1	--	3,880	--	0.549	--	29.2	--	223	--
	12/8/2009	<10.0	--	12.4	--	682	--	<10.0	--	41.3	--	85.4	--	84	--	3,340	--	<0.2	--	32.4	--	229	--
	6/3/2010	0.4 J	--	19.7	--	995	--	2.2 J	--	99.2	--	193	--	183	--	4,700	--	1.4	--	80.4	--	571	--
	6/3/2010 DUP	0.35 J	--	20.7	--	988	--	2.3 J	--	101	--	202	--	188	--	4,860	--	1.07	--	81.4	--	572	--
	12/2/2010	0.3 J	--	11.6	--	1140	--	2.46	--	55.8	--	105	--	142	--	6,280	--	1.81	--	74.6	--	700	--
	6/3/2011	0.38 J	--	3.91	--	386	--	<1.0	--	4.45	--	7.7 J	--	6.74	--	2,680	--	0.0954 J	--	4.71	--	23.7	--
	12/16/2011	0.25 J	--	5.55	--	356	--	<5.0	--	10.1	--	14.8	--	10.0	--	2,360	--	<0.2	--	6.8	--	4.3 J	--
	3/28/2012	--	--	3.9	--	350	--	<0.19	--	3.00	--	3.3	--	3.00	--	2,500	--	0.49	--	2.6	--	8.9 J	--
	7/25/2012	<1.0	--	4.29	--	324	--	<1.0	--	2.62	--	3.38	--	3.51	--	2,220	--	<0.08	--	4.01	--	10.8 B	--
	12/5/2012	<1.0	--	4.62	--	317	--	<1.0	--	<2.0	--	<2.0	--	<1.0	--	2,270	--	<0.08	--	4.34	--	4.19	--
	6/19/2013	<1.0	--	4.26	--	305	--	<1.0	--	2.80	--	3.16	--	2.61	--	2,430	--	<0.08	--	4.63	--	7.36	--
	12/16/2013	<1.00	--	4.3	--	337	--	<0.200	--	5.52	--	2.37	--	0.989	--	2,470	--	<0.0800	--	4.10	--	6.19	--
	6/11/2014	<1.00	--	8.39	--	537	--	1.83	--	30.3	--	182	--	69.3	--	2,940	--	0.218	--	38.6	--	223	--
	12/19/2014	<1.00	--	3.92	--	304	--	0.0566 J	--	2.07	--	2.30	--	2.16	--	2,480	--	<0.0800	--	1.84	--	5.42	--
	12/18/2015	<1.00	<1.00	3.54	2.83	294	108	0.0556 J	<0.200	1.73	0.700 J	3.48	<1.00	3.9	<0.200	2,220	2,220	<0.0800	<0.0800	3.19	1.87	12.2	3.66 J
	12/12/2016	0.789 J	<1.00	4.06	3.69	298	272	0.200	<0.200	2.22	1.31	11.6	<1.00	13.7	<0.200	1,970	1,950	0.0986	<0.0800	4.39	2.34	36.0	3.31 J
	6/28/2017	0.678 J	<1.00	4.01	3.94	300	288	0.2	<0.200	3.52	1.37	11.4	0.867 J	14.1	0.1 J	2,060	2,130	0.0723 J	--	4.33	3.67	33.0	43.2
	12/14/2017	<1.00	<1.00	4.49	3.89	290	286	<0.200	<0.200	2.12	<1.00	11.0	6.18	14.4 B	0.527	2,220	2,160 Q-42	0.0858	--	2.93	1.21	37.0	6.60
	6/27/2018	<1.00	<1.00	3.90	3.56	301	281	<0.200	<0.200	1.71	1.36	5.54	<1.00	7.14	<0.200	2,160	2,100	<0.0800	<0.160	2.36	1.22	17.7	6.34
	12/18/2018	1.63	1.05	4.03	3.25	260	221	0.321	<0.200	4.01	<1.00	16.3	<1.00	16.9	0.542	1,760	1,630	0.0882	--	4.01	1.63	51.3	9.89
	6/20/2019	<1.00	<1.00	3.81	3.83	294 B-02	248	<0.200	<0.200	1.30	<1.00	3.74	<1.00	5.04	<0.200	2,100	2,000	<0.0800	--	1.64	1.12	12.1 B	<4.00
	12/11/2019	<1.00	<1.00	3.38	3.53	278	247	<0.200	<0.200	1.70	<1.00	3.92	<1.00	6.00	0.878	2,110	1,960	<0.0800	--	4.43	<1.00	16.0	<4.00
	ROD Cleanup Level ⁶ .		NA		0.018		NA		0.094		11		2.74		0.54		430		NA		NA		36.5
JSCS SLV ⁷ .		6		0.045		NA		0.094		100		2.7		0.54		50		0.77		16		36	

Please refer to notes at end of table.

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
SCHNITZER ASD YARD																							
MW-73 (continued)	6/12/2020	<1.00	<1.00	3.25	3.49	280	279	<0.200	<0.200	1.19	<1.00	2.54	<2.00	2.87	0.289	2,090	2,090	<0.0800	–	<2.00	<2.00	7.98	<4.00
	12/2/2020	<1.00	<1.00	3.70	3.39	309	290	<0.200	<0.200	1.33	<1.00	2.77	<2.00	2.98	<0.200	2,170	2,140	<0.0800	–	<2.00	<2.00	8.71	<4.00
	6/8/2021	<1.00	2.02	3.77	3.69	275	257	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	1.42	<0.200	1,920 A-01	1,890	<0.0800 H-01	–	<2.00	<2.00	4.71	<4.00
	12/1/2021	<1.00	<1.00	3.84	3.83	289	284	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	2.25	<0.200	2180	2,140	<0.0800	–	<2.00	<2.00	6.15	<4.00
MW-74	12/8/2009	1.2 J	–	63.2	–	1620	–	12.0 J	–	270	–	619	–	646	–	13,100	–	0.275	–	235	–	3,120	–
	6/3/2010	0.35 J	–	2.32	–	87.5	–	<1.0	–	<1.0	–	<1.0	–	<1.0	–	5,700	–	1.31	–	1.7 J	–	3.39 J	–
	12/2/2010	1.1 J	–	12	–	349	–	1.38 J	–	44.7	–	94.3	–	115	–	5,730	–	0.747	–	43.9	–	488	–
	6/3/2011	4.63	–	2.04	–	168	–	<1.0	–	0.96 J	–	4.95 J	–	1.0	–	1,920	–	<0.2	–	11.2	–	138	–
	12/16/2011	0.38 J	–	2.28	–	118	–	<1.0	–	3.23	–	5.06	–	3.17	–	3,680	–	<0.2	–	6.35	–	48.6	–
	3/28/2012	–	–	1.7	–	79	–	<0.19	–	3.20	–	1.3 J	–	0.12 J	–	1,300	–	<0.055	–	5.8	–	57	–
	7/6/2012	<1.0	–	10.2	–	153	–	<1.0	–	<2.0	–	<2.0	–	<1.0	–	3,300	–	<0.08	–	5.08	–	37.8 B	–
	12/5/2012	<1.0	–	7.31	–	187	–	<1.0	–	2.17	–	4.92	–	2.3	–	4,850	–	<0.08	–	4.23	–	27.1	–
	6/19/2013	<1.0	–	2.26	–	95.2	–	<1.0	–	<2.0	–	8.94	–	<1.00	–	3,540	–	<0.08	–	2.86	–	20.7	–
	12/16/2013	<1.00	–	2.83	–	112	–	<0.200	–	2.29	–	1.12	–	0.522	–	4,280	–	<0.0800	–	2.88	–	7.48	–
	6/11/2014	<1.00	–	3.28	–	98.2	–	<0.200	–	1.76	–	1.29	–	<0.200	–	3,780	–	<0.0800	–	2.18	–	5.98	–
	12/22/2014	1.58	–	1.64	–	97.4	–	<0.200	–	<1.00	–	0.800 J	–	<0.200	–	3,480	–	<0.0800	–	2.99	–	36.2	–
	12/16/2015	<1.00	<1.00	10.6	4.23	254	87.7	<0.200	<0.200	1.29	0.622 J	<1.00	<1.00	<0.200	0.156 J	1,400	1,410	<0.0800	<0.0800	3.98	3.67	2.16 J	5.99
	12/9/2016	<1.00	<1.00	2.07	1.71	117	103	<0.200	<0.200	<1.00	<1.00	0.556 J	<1.00	0.256	<0.200	3,810	3,760	<0.0800	<0.0800	2.34	2.04	9.64	4.87
	6/28/2017	<1.00	<1.00	4.64	4.71	190	184	0.0444 J	<0.200	1.27	1.11	0.789 J	0.756 J	0.111 J	<0.200	6,280	6,330	<0.0800	–	2.06	3.33	<4.00	<4.00
	12/14/2017	<1.00	<1.00	2.36	2.20	101	98.5	<0.200	<0.200	<1.00	<1.00	<1.00	1.38	<0.200	<0.200	4,310	4,430	<0.0800	–	1.30	1.83	11.4	9.17
	6/27/2018	<1.00	<1.00	3.76	3.52	115	107	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	4,580	4,540	<0.0800	<0.160	<1.00	<1.00	<4.00	<4.00
	12/19/2018	<1.00	<1.00	3.3	3.17	140 B-02	124	<0.200	<0.200	1.42	<1.00	2.24	<1.00	1.35	<0.200	4,850	4,880	<0.0800	–	2.57	<1.00	24.0	<4.00
	6/20/2019	<1.00	<1.00	2.53	2.57	126 B-02	130	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	0.206	4,040	4,370 Q-42	<0.0800	–	<1.00	1.08	<4.00	11.8
	12/13/2019	6.52	6.65	<1.00	<1.00	61.7	57.6	<0.200	<0.200	3.34	3.33	3.27	2.41	0.679	<0.200	221	180	<0.0800	–	2.08	1.88	28.4	25.3
	6/10/2020	5.83	5.86	<1.00	<1.00	102	95.8	0.259	0.254	2.73	2.64	4.04	3.25	<0.200	<0.200	79.3	64.5	<0.0800	–	2.01	<2.00	84.1	77.9
	12/3/2020	1.55	1.45	1.64	1.27	115	98.9	<0.200	<0.200	<1.00	<1.00	2.97	<2.00	0.300	<0.200	1,750	1,570	<0.0800	–	<2.00	<2.00	65.1	50.5
	6/8/2021	2.70	2.00	4.73	<1.00	188	88.7	1.56	1.06	2.85	<2.00	17.3	2.70	3.39	<0.200	2,740	1,020	<0.0800 H-01	–	10.2	6.27	298	157
	6/8/2021 DUP	2.70	1.88	4.87	<1.00	192	90.8	1.50	1.08	2.89	<2.00	17.6	2.78	3.79	<0.200	2,850	1,040	<0.0800 H-01	–	9.92	5.06	309	161
	12/2/2021	3.05	2.44	4.12	1.89	186	124	0.355	0.565	3.58	<2.00	4.70	2.08	1.78	0.290	2,560	1,560	<0.0800	–	4.26	<2.00	162	73.8
	6/22/2022	7.01	5.8	3.33	<1.00	224	86.5	0.790	<0.200	2.25	<2.00	8.69	2.26	2.82	<0.200	3,020	56.0	–	–	6.65	<2.00	269	44.3
11/29/2022	5.20	4.20	4.85	<1.00	261	113	0.510	<0.200	2.70	<2.00	12.60	2.73	2.38	<0.200	2,830	484	–	–	5.18	<2.00	222	70.0	
11/29/22 DUP	4.92	4.20	3.61	<1.00	217	116	0.386	<0.200	2.27	<2.00	5.85	2.79	1.79	<0.200	2,210	498	–	–	4.05	<2.00	170	72.7	
5/31/2023	8.30	3.83	9.62	1.22	963	118	2.780	0.254	9.31	<2.00	36.8	284	16.4	0.732	12,000	527	–	–	31.2 B	3.85	1,110	213	
8/31/2023	5.41	5.36	1.11	<1.00	142	138	0.445	0.361	2.86	2.41	23.6	15.8	2.91	0.874	93.7	4.84	<0.0800	–	5.11	4.65	219	197	
MW-76	12/8/2009	1.4 J	–	46.4	–	1460	–	4.6 J	–	174	–	339	–	262	–	6,460	–	<0.2	–	162	–	1,010	–
	12/2/2010	0.3 J	–	17.7	–	459	–	0.8 J	–	40.6	–	86.4	–	69.6	–	2,250	–	0.751	–	36.8	–	228	–
	12/16/2011	0.16 J	–	10.7	–	174	–	<1.0	–	2.9	–	4.41	–	2.4	–	944	–	<0.2	–	5.74	–	13.6	–
	12/16/2011 DUP	0.16 J	–	11.3	–	191	–	<1.0	–	4.36	–	6.17	–	3.65	–	996	–	<0.2	–	7.00	–	20.5	–
	3/28/2012	–	–	10	–	310	–	<0.19	–	1.7 J	–	3.8	–	1.1	–	1,700	–	1.1	–	5.20	–	6.9 J	–
	3/28/2012 DUP	–	–	10	–	310	–	<0.19	–	1.7 J	–	3.8											

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
SCHNITZER ASD YARD																							
MW-77	8/20/2009	0.20 J	--	15.2	--	171	--	0.12 J	--	6.75 J	--	20.2	--	10.5	--	1,850	--	<0.20	--	4.82	--	28.6	--
	12/8/2009	<10.0	--	13.2	--	152	--	<10.0	--	<10.0	--	12.1 J	--	7.5 J	--	1,530	--	<0.2	--	3.8 J	--	<100	--
	6/3/2010	<2.0	--	10.6	--	120	--	<2.0	--	<2.0	--	<2.0	--	<2.0	--	1,270	--	<0.2	--	0.82 J	--	<2.0	--
	12/2/2010	0.22 J	--	13	--	192	--	<2.0	--	10.7	--	22.5	--	18.5	--	1,700	--	<0.2	--	8.48	--	47.6	--
	6/3/2011	0.11 J	--	9.7	--	171	--	<1.0	--	2.86	--	6.45 J	--	3.68	--	1,930	--	<0.2	--	2.46	--	10.3	--
	12/16/2011	0.1 J	--	11.3	--	121	--	<1.0	--	1.06 J	--	1.37 J	--	1.00	--	1,190	--	<0.2	--	1.08 J	--	6.7 J	--
	3/28/2012	--	--	8.1	--	99	--	<0.19	--	1.8 J	--	1.8 J	--	1.00	--	1,000	--	<0.055	--	1.9 J	--	3.9 J	--
	7/6/2012	<1.0	--	10.5	--	160	--	<1.0	--	2.87	--	5.81	--	5.28	--	1,500	--	<0.08	--	4.34	--	12.9 B	--
	12/5/2012	<1.0	--	13.1	--	175	--	<1.0	--	2.43	--	7.86	--	5.02	--	1,620	--	<0.08	--	4.81	--	11.9	--
	6/19/2013	<1.0	--	9.31	--	125	--	<1.0	--	<2.0	--	<2.0	--	<1.0	--	1,300	--	<0.08	--	2.62	--	<4.0	--
	12/16/2013	<1.00	--	13.1	--	141	--	<0.200	--	1.82	--	2.10	--	0.222	--	1,450	--	<0.0800	--	3.02	--	<4.00	--
	6/11/2014	<1.00	--	9.39	--	145	--	0.200	--	3.81	--	2.33	--	0.478	--	1,450	--	<0.0800	--	2.37	--	<4.00	--
	12/19/2014	<1.00	--	12.7	--	157	--	<0.200	--	0.956 J	--	0.567 J	--	0.178 J	--	1,590	--	<0.0800	--	1.20	--	2.92 J	--
	6/26/2015	<1.00	--	14.5	--	141	--	0.0778	--	0.811	--	0.544	--	0.311	--	1,500	--	<0.0800	--	1.21	--	2.97	--
	12/18/2015	<1.00	0.644 J	5.08	3.07	81.7	47.2	<0.200	<0.200	0.767 J	<1.00	2.00	<1.00	0.289	<0.200	1,520	1,530	<0.0800	<0.0800	1.29	1.03	2.66 J	5.06
	12/12/2016	<1.00	<1.00	12.8	12.8	159	146	<0.200	<0.200	0.678 J	0.756 J	0.856 J	<1.00	0.300	<0.200	1,340	1,300	<0.0800	<0.0800	1.80	1.47	4.12	3.14 J
	6/28/2017	<1.00	<1.00	12.1	12.1	153	147	<0.200	<0.200	1.08	0.8 J	1.33	1.27	0.211	<0.200	1,220	1,290	<0.0800	--	2.41	3.19	3.47 J	<4.00
	12/14/2017	<1.00	<1.00	14.5	14.3	142	144	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	0.400	<0.200	1,430	1,390	<0.0800	--	1.30	1.44	<4.00	<4.00
	6/26/2018	<1.00	<1.00	12.8	12.4	150	141	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,410	1,360	<0.0800	<0.160	<1.00	<1.00	<4.00	<4.00
	12/19/2018	<1.00	<1.00	14.5	15.3	150 B-02	147	<0.200	<0.200	<1.00	<1.00	2.48	<1.00	0.283	<0.200	1,510	1,500	<0.0800	--	1.41	<1.00	9.69	<4.00
	6/20/2019	<1.00	<1.00	11.2	11.6	131 B-02	128	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,180	1,140	<0.0800	--	<1.00	<1.00	<4.00	<4.00
	12/10/2019	<1.00	<1.00	14.9	13.6	152	135	<0.200	<0.200	<1.00	<1.00	1.34	<1.00	0.460	<0.200	1,710	1,560	<0.0800	--	1.52	1.07	<4.00	<4.00
	6/11/2020	<1.00	<1.00	11.4	11.7	148	146	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	1,490	1,490	<0.0800	--	<2.00	<2.00	<4.00	<4.00
	12/2/2020	<1.00	<1.00	16.1	15.5	152	145	<0.200	<0.200	1.15	<1.00	2.14	<2.00	1.12	<0.200	1,560	1,490	<0.0800	--	<2.00	<2.00	9.58	<4.00
	6/8/2021	<1.00	<1.00	12.8	12.1	140	137	<0.200	<0.200	<2.00 Q-42	<2.00	<2.00	<2.00	<0.200	<0.200	1,350 Q-42	1,330 Q-42	<0.0800 H-01	--	<2.00	<2.00	<4.00	<4.00
	12/1/2021	<1.00	<1.00	17.6	16.3	159	124	<0.200	<0.200	2.70	<2.00	4.80	<2.00	3.22	<0.200	1,780	1,650	<0.0800	--	4.15	<2.00	12.5	<4.00
MW-78	8/20/2009	1.44	--	5.16	--	361	--	0.3 J	--	106	--	20	--	26.5	--	3,150	--	0.176 J	--	7.81	--	67	--
	12/8/2009	2.2 J	--	8.7 J	--	450	--	<10.0	--	23.3	--	51	--	64.7	--	3,190	--	<0.2	--	20.6	--	181	--
MW-79	8/20/2009	11.5	--	16.5	--	577	--	2.55	--	105	--	167	--	421	--	2,740	--	0.703	--	56.6	--	817	--
	8/20/2009 DUP	10.9	--	16.7	--	576	--	2.47	--	99.2	--	156	--	407	--	2,870	--	1.14	--	54.7	--	802	--
	12/5/2009	5.9 J	--	13.5	--	535	--	2.0 J	--	78.5	--	131	--	393	--	2,710	--	<0.2	--	47.5	--	783	--
	12/5/2009 DUP	6.4 J	--	15.5	--	562	--	1.9 J	--	90.6	--	128	--	412	--	2,920	--	<0.2	--	52.2	--	843	--
	6/3/2010	5.76	--	7.24	--	253	--	0.76 J	--	36.1	--	59.2	--	125	--	1,440	--	0.619	--	20.9	--	287	--
	12/1/2010	5.81	--	14.8	--	690	--	<2.0	--	92.2	--	142	--	262	--	2,830	--	1.34	--	67.8	--	727	--
	6/2/2011	0.59 J	--	0.33 J	--	29.8	--	<1.0	--	2.94	--	9.54	--	6.67	--	48.6	--	<0.20	--	1.77	--	58.9	--
	6/2/2011 DUP	21.5	--	1.02	--	181	--	<1.0	--	<1.0	--	0.95 J	--	0.18 J	--	417	--	<0.20	--	3.19	--	13.0	--
	12/16/2011	121	--	2.53	--	175	--	<1.0	--	4.10	--	12.8	--	12.0	--	390	--	<0.2	--	12.2	--	803	--
	3/28/2012	--	--	0.96 J	--	73	--	<0.19	--	<0.84	--	1.8 J	--	0.62 J	--	220	--	<0.055	--	4.80	--	140	--
	7/6/2012	29.1	--	2.04	--	172	--	<1.0	--	<2.0	--	<2.0	--	<1.0	--	637	--	<0.08	--	6.99	--	41.5 B	--
	12/5/2012	41.2	--	<2.0	--	87.9	--	<1.0	--	<2.0	--	3.09	--	2.41	--	134	--	<0.08	--	4.86	--	185	--
	6/19/2013	57.1	--	<2.0	--	173	--	<1.0	--	<2.0	--	<2.0	--	1.03	--	691	--	<0.08	--	10.7	--	275	--
	12/16/2013	16.7	--	<1.00	--	204	--	<0.200	--	1.83	--	7.34	--	1.66	--	416	--	<0.0800	--	12.7	--	76.8	--
	6/11/2014	490	--	5.48	--	256	--	0.322	--	3.50	--	8.92	--	7.81	--	359	--	<0.0800	--	13.7	--	736	--
ROD Cleanup Level ⁶		NA		0.018		NA		0.094		11		2.74		0.54		430		NA		NA		36.5	
JSCS SLV ⁷		6		0.045		NA		0.094		100		2.7		0.54		50		0.77		16		36	

Please refer to notes at end of table.

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
SCHNITZER ASD YARD																							
MW-79 (continued)	12/19/2014	22.3	–	1.11	–	207	–	0.400	–	0.744 J	–	9.18	–	6.42	–	444	–	<0.0800	–	11.7	–	141	–
	6/26/2015	77.5	–	1.42	–	230	–	<0.200	–	<1.00	–	0.556	–	2.88	–	573	–	<0.0800	–	2.9	–	11.2	–
	12/18/2015	30.1	12.1	0.800 J	<1.00	135	131	0.111 J	<0.200	0.956 J	<1.00	5.97	0.544 J	9.04	0.678	434	422	<0.0800	<0.0800	2.38	1.79	197	14.2
	12/12/2016	<1.00	<1.00	3.81	3.50	316	284	0.0444 J	<0.200	4.58	1.16	8.22	0.733 J	1.39	<0.200	2,330	2,310	<0.0800	<0.0800	7.41	4.69	7.54	3.08 J
	6/28/2017	<1.00	<1.00	3.88	3.94	301	288	0.0889 J	<0.200	4.42	1.37	6.73	0.833 J	3.76	<0.200	2,470	2,550	<0.0800	–	6.22	5.98	11.9	<4.00
	12/14/2017	112	99.3	2.91	2.52	198	212	0.281	<0.200	<1.00	<1.00	6.98	1.48	4.20 B	<0.200	633	681	<0.0800	–	15.8 B-02	14.7	550	244
	6/26/2018	9.93	6.95	<1.00	<1.00	246	249	<0.200	<0.200	<1.00	<1.00	1.45	<1.00	0.525	<0.200	705	701	<0.0800	<0.160	<1.00	<1.00	40.9	<4.00
	12/18/2018	35.4	18.4	<1.00	<1.00	126	131	0.293	<0.200	<1.00	<1.00	6.53	3.74	2.43	1.28	360	384	<0.0800	–	7.03	7.15	252	114
	6/20/2019	45.6	30.1	<1.00	<1.00	330 B-02	322	<0.200	<0.200	<1.00	<1.00	1.97	<1.00	0.666	<0.200	909	913	<0.0800	–	1.72	1.48	58.5	<4.00
	12/10/2019	50.8	37.7	<1.00	<1.00	187	167	<0.200	<0.200	<1.00	<1.00	7.36	1.31	3.24	0.278	473	425	<0.0800	–	10.9	10.1	119	22.6
	6/11/2020	17.9	6.00	<1.00	<1.00	278	282	<0.200	<0.200	<1.00	<1.00	6.73	<2.00	2.03	<0.200	698	702	<0.0800	–	10.7	10.4	82.5	<4.00
	12/2/2020	29.3	9.76	<1.00	<1.00	189	190	0.281	<0.200	<1.00	<1.00	14.7	<2.00	5.11	0.324	386	395	0.0822	–	6.93	7.39	195	17.5
	6/8/2021	258	191	1.96	<1.00	275	266	0.250	<0.200	<2.00	<2.00	5.53	<2.00	3.18	0.811	660	667	<0.0800 H-01	–	7.01	4.43	626	115
	12/1/2021	39.8	4.77	<1.00	<1.00	186	184	0.291	<0.200	<2.00	<2.00	7.59	3.4	4.35	2.79	466	473	<0.0800	–	6.74	5.48	597	343
	6/22/2022	37.1	2.85	1.13	<1.00	176	174	0.597	<0.200	<2.00	<2.00	12.2	<2.00	6.62	<0.200	510	510	–	–	13.7	6.03	643	<4.00
	6/22/2022 DUP	42.6	2.99	1.14	<1.00	173	180	0.576	<0.200	<2.00	<2.00	13.8	<2.00	6.70	<0.200	501	512	–	–	13.9	6.14	648	<4.00
11/29/2022	116	70.6	1.65	1.54	232	224	0.706	<0.200	<2.00	<2.00	13.6	<2.00	5.40	0.399	445	450	–	–	15.5	15.0	811	344	
6/2/2023	64.2	4.68	1.28	<1.00	379	362	0.568	<0.200	<2.00	<2.00	7.14	<2.00	4.64	0.204	900	922	–	–	12.9	11.8	922	11.9	
MW-80	12/8/2009	1.0 J	–	63.2	–	1170	–	2.05 J	–	24.1	–	79	–	113	–	3,130	–	<0.2	–	21.2	–	538	–
	12/2/2010	0.64 J	–	28.1	–	728	–	1.9 J	–	54.1	–	111	–	183	–	2,490	–	0.863	–	46.7	–	438	–
	12/16/2011	0.95 J	–	14.8	–	224	–	<5.0	–	128	–	42.2	–	90.4	–	3,110	–	<0.2	–	79.1	–	202	–
	3/29/2012	–	–	5.3	–	69	–	<0.19	–	1.9 J	–	3.8	–	5.8	–	1,800	–	<0.055	–	3.00	–	22.0	–
	7/6/2012	<1.00	–	5.58	–	73.6	–	<1.0	–	<2.0	–	<2.0	–	3.1	–	1,740	–	<0.08	–	<2.0	–	6.11 B	–
	12/5/2012	<1.0	–	4.23	–	67.9	–	<1.0	–	<2.0	–	<2.0	–	<1.0	–	1,600	–	<0.08	–	<2.0	–	<4.0	–
	12/16/2013	<1.00	–	10.6	–	87.5	–	<0.200	–	3.71	–	40.6	–	5.98	–	3,190	–	<0.0800	–	2.78	–	38.8	–
	12/23/2014	<1.0	–	3.62	–	86.9	6.00	<0.200	–	0.544 J	–	1.46 J	–	1.56	–	956	–	<0.0800	–	0.889	–	10.3	–
	12/18/2015	<1.00	<1.00	4.39	1.49	111	55.3	0.144 J	<0.200	1.58	<1.00	8.29	<1.00	11.0	<0.200	994	945	<0.0800	<0.0800	2.13	1.41	70.0	10.7
	12/9/2016	<1.00	<1.00	3.78	3.36	84.6	77.5	<0.200	<0.200	0.558 J	<1.00	0.967 J	0.778 J	1.01	0.656	1,080	972	<0.0800	<0.0800	0.572 J	0.722 J	7.72	5.87
	12/14/2017	<1.00	<1.00	2.69	1.47	88.8	74.7	0.211	<0.200	<1.00	<1.00	12.2	1.68	3.62 B	1.41	615	641	<0.0800	–	4.79	3.77	38.6	11.4
	12/18/2018	<1.00	<1.00	1.58	1.20	66.2	61.8	<0.200	<0.200	<1.00	<1.00	4.91	1.53	0.972	<0.200	598	608	<0.0800	–	2.18	1.87	15.2	6.43
	12/17/2019	1.09	<1.00	3.01	2.50	41.4	34.3	<0.200	<0.200	1.39	<1.00	9.13	<1.00	5.99	0.388	319	315	<0.0800	–	2.28	<1.00	38.2	<4.00
	12/2/2020	1.09	<1.00	2.20	1.45	81.4	81.1	0.212	<0.200	<1.00	<1.00	8.66	<2.00	2.73	<0.200	701	720	<0.0800	–	<2.00	<2.00	39.1	<4.00
11/30/2021	1.64	<1.00	4.09	1.28	89.3	69.3	0.235	<0.200	<2.00	<2.00	8.58	<2.00	2.91	<0.200	686	658	<0.0800	–	2.02	<2.00	37.5	5.33	
MW-86	7/2/2019	–	<1.00	–	8.09	–	218	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	2,110	–	–	–	<2.00	–	<4.00
	9/10/2019	–	<1.00	–	15.1	–	185	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	2,080	–	–	–	1.56	–	<4.00
	12/13/2019	<5.00	<1.00	16.4	16.2	162	156	<1.00	<0.200	<5.00	<1.00	<5.00	<1.00	0.434	<0.200	1,980	1,800	–	–	<20.0	1.55	<20.0	<4.00
	3/18/2020	<1.00	<1.00	20.6	20.1	145	134	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	2,230	2,230	–	–	<2.00	<2.00	<4.00	<4.00
	6/12/2020	<1.00	<1.00	10.5	11.3	48.8	49.9	<0.200	<0.200	<1.00	<1.00	2.32	<2.00	0.504	<0.200	560	596	–	–	2.53	2.44	11.7	<4.00
	9/9/2020	<1.00	<1.00	12.6	12.7	138	140	<0.200	<0.200	<1.00	<1.00	<2.00											

Table E-4
Historical Groundwater Analytical Results—Metals
Gunderson LLC, Portland, Oregon

Well ID	Sample Date	Antimony		Arsenic		Barium		Cadmium		Chromium		Copper		Lead		Manganese		Mercury		Nickel		Zinc	
		Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Concentrations in µg/L (ppb)																							
SCHNITZER ASD YARD																							
MW-87 (continued)	12/2/2020 DUP	<1.00	<1.00	7.23	6.85	62.8	57.6	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	872	821	–	–	<2.00	<2.00	<4.00	<4.00
	3/11/2021	<1.00	<1.00	11.1	10.5	90.9	92.9	<0.200	<0.200	1.60	1.18	2.25	<2.00	1.64	1.17	2,320	2,300	–	–	<2.00	<2.00	12.9	7.38
	6/8/2021	<1.00	<1.00	13.7	13.7	138	135	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.475	<0.200	2,740	2,670	–	–	<2.00	<2.00	<4.00	<4.00
	9/23/2021	<1.00	<1.00	14.8	14.9	158	144	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.256	<0.200	3,160	3,050	–	–	2.04	<2.00	<4.00	<4.00
	12/1/2021	<1.00	<1.00	11.6	12.1	144	147	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.549	<0.200	2,920	2,920	–	–	<2.00	<2.00	<4.00	<4.00
	3/1/2022	<1.00	<1.00	10.3	9.84	63.1	57.2	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.390	<0.200	1,080	1,060	–	–	<2.00	<2.00	8.62	4.39 Q-17
	3/1/2022 DUP	<1.00	<1.00	10.8	10.5	67.9	62.0	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.387	<0.200	1,160	1,150	–	–	<2.00	<2.00	11.3	7.17 Q-17
MW-88	7/2/2019	–	<1.00	–	6.55	–	77.2	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,480 Q-42	–	–	–	<2.00	–	<4.00
	7/2/2019 DUP	–	<1.00	–	6.65	–	79.0	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,500	–	–	–	<2.00	–	<4.00
	9/11/2019	–	<1.00	–	6.18	–	86.8	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,770	–	–	–	<1.00	–	<4.00
	9/11/2019 DUP	–	<1.00	–	6.34	–	85.1	–	<0.200	–	<1.00	–	<1.00	–	<0.200	–	1,790	–	–	–	<1.00	–	<4.00
	12/13/2019	<1.00	<1.00	2.87	2.76	46.1	210	<0.200	<0.200	<1.00	<1.00	<1.00	<1.00	<0.200	<0.200	1,610	1,590	–	–	<1.00	<1.00	<4.00	<4.00
	3/18/2020	<1.00	<1.00	2.79	2.65	48.2	47.1	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	1,810	1,850	–	–	<2.00	<2.00	<4.00	<4.00
	6/12/2020	<1.00	<1.00	3.33	3.38	48.5	47.7	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	0.379	1,770	1,750	–	–	<2.00	<2.00	<4.00	<4.00
	9/11/2020	<1.00	<1.00	3.91	3.86	47.0	44.3	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	1,790	1,750	–	–	<2.00	<2.00	<4.00	<4.00
	12/3/2020	<1.00	<1.00	3.59	3.54	46.2	44.5	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	1,720	1,620	–	–	<2.00	<2.00	<4.00	<4.00
	3/11/2021	<1.00	<1.00	2.66	2.73	32.6	32.7	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	1,360	1,310	–	–	<2.00	<2.00	<4.00	<4.00
	3/11/2021 DUP	<1.00	<1.00	2.78	2.71	32.7	32.7	<0.200	<0.200	<1.00	<1.00	<2.00	<2.00	<0.200	<0.200	1,330	1,320	–	–	<2.00	<2.00	<4.00	<4.00
	6/11/2021	<1.00	<1.00	3.26	3.18	39.0	37.1	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,470	1,470	–	–	<2.00	<2.00	<4.00	<4.00
	9/23/2021	<1.00	<1.00	3.99	3.74	36.8	33.5	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,320	1,230	–	–	<2.00	<2.00	<4.00	<4.00
	9/23/2021 DUP	<1.00	<1.00	3.92	4.05	37.7	35.1	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,350	1,270	–	–	<2.00	<2.00	<4.00	<4.00
	11/30/2021	<1.00	<1.00	2.67	2.70	35.5	36.3	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,640	1,640	–	–	<2.00	<2.00	<4.00	<4.00
3/2/2022	<1.00	<1.00	2.71	2.72	32.6	28.9	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,270	1,170	–	–	<2.00	<2.00	<4.00	<4.00	
MW-89	7/2/2019	–	<1.00	–	7.53	–	110	–	<0.200	–	<1.00	–	<1.00	–	0.592	–	2,550	–	–	–	2.77	–	5.89
	9/10/2019	–	<1.00	–	10.9	–	69.5	–	<0.200	–	<1.00	–	<1.00	20.2	<0.200	2,230	1,930	–	–	16.5	1.56	72.0	<4.00
	12/16/2019	<1.00	<1.00	13.0	10.4	183	92.9	0.210	<0.200	20.2	<1.00	27.8	<1.00	20.2	<0.200	2,230	1,930	–	–	16.5	1.56	72.0	<4.00
	3/18/2020	<1.00	<1.00	10.6	9.37	125	98.5	<0.200	<0.200	7.55	1.74	11.0	2.97	6.84	2.90	2,060	1,980	–	–	6.57	<2.00	27.3	12.9
	6/11/2020	<1.00	<1.00	5.57	5.37	98.5	86.7	<0.200	<0.200	2.96	<1.00	4.04	<2.00	2.14	<0.200	1,610	1,580	–	–	<2.00	<2.00	7.95	<4.00
	9/9/2020	<1.00	<1.00	8.75	8.09	109	95.4	<0.200	<0.200	3.93	<1.00	6.66	<2.00	4.25	0.247	2,150	2,070	–	–	3.63	<2.00	25.6	<4.00
	12/1/2020	<1.00	<1.00	7.65	7.04	102	98.7	<0.200	<0.200	2.09	<1.00	2.62	<2.00	1.89	<0.200	1,860	1,800	–	–	<2.00	<2.00	8.26	<4.00
	3/11/2021	<1.00	<1.00	6.00	5.32	103	87.5	<0.200	<0.200	4.21	<1.00	6.66	<2.00	5.13	<0.200	1,760	1,650	–	–	4.19	<2.00	17.5	<4.00
	6/11/2021	<1.00	<1.00	8.20	7.15	105	94.5	<0.200	<0.200	4.39	<2.00	5.89	<2.00	3.90	<0.200	2,010	2,010	–	–	4.88	<2.00	23.1	<4.00
	9/22/2021	<1.00	<1.00	7.96	7.29	102	83.9	<0.200	<0.200	3.48	<2.00	4.58	<2.00	3.78	<0.200	1,810	1,680	–	–	3.37	<2.00	12.9	<4.00
	12/1/2021	<1.00	<1.00	9.87	8.4	115	82.1	<0.200	<0.200	8.54	<2.00	11.4	<2.00	8.25	<0.200	2,260	2,030	–	–	7.27	<2.00	40.0	<4.00
	4/22/2022	<1.00	<1.00	7.27	4.63	86.5	76.7	<0.200	<0.200	2.85	<2.00	3.63	<2.00	2.19	<0.200	1,600	1,510	–	–	2.36	<2.00	9.68	<4.00
MW-93	12/29/2021	<1.00	<1.00	10.6	10.8	138	133	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	3,100	3,050	–	–	4.27	3.80	<4.00	<4.00
	3/2/2022	<1.00	<1.00	13.9	13.0	204	176	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	4,700	3,840	–	–	<2.00	<2.00	<4.00	<4.00
	6/22/2022	<1.00	<1.00	13.4	14.7	141	134	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	1,990	2,010	–	–	<2.00	<2.00	<4.00	<4.00
	9/21/2022	<1.00	<1.00	15.3	15.8	133	127	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	0.219	<0.200	3,250	3,270	–	–	<2.00	<2.00	<4.00	<4.00
	9/21/22 DUP	<1.00	<1.00	14.9	15.8	130	127	<0.200	<0.200	<2.00	<2.00	<2.00	<2.00	<0.200	<0.200	3,100	3,0>						

Table E-5**Historical Groundwater Analytical Results—Phthalates**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	Bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate
		Concentrations in µg/L (ppb)					
AREA 1							
MW-52	1/21/2019	<1.63	<1.63	<1.63	<1.63	<1.63	<1.63
	3/5/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	6/19/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/10/2019	<0.385	<0.385	<0.385	<0.385	<0.385	<0.385
	12/10/2019	<0.392	<0.392	<0.392	<0.392	<0.392	<0.392
	3/17/2020	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	6/10/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	9/10/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	3/10/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	6/10/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	9/23/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	12/2/2021	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404
	3/2/2022	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
MW-62	1/21/2019	<1.63	<1.63	<1.63	<1.63	<1.63	<1.63
	3/6/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	6/19/2019	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	9/10/2019	<0.381	<0.381	0.522	<0.381	<0.381	<0.381
	12/10/2019	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	3/17/2020	<0.385	<0.385	<0.385	<0.385	<0.385	<0.385
	6/10/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	9/10/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	3/9/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/8/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/8/2021 DUP	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	9/21/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	12/2/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
12/2/2021 DUP	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374	
3/2/2022	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374	
MW-90	7/2/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/10/2019	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	12/12/2019	<0.388	<0.388	<0.388	<0.388	<0.388	<0.388
	3/17/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/9/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	12/1/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	9/9/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/8/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	9/22/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/2/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	3/2/2022	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
ROD Cleanup Level ⁷ .		0.2	NA	NA	NA	NA	NA
JSCS SLV ⁸ .		2.2	3	3	3	3	3

Please refer to notes at end of table.

Table E-5**Historical Groundwater Analytical Results—Phthalates**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	Bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate
		Concentrations in µg/L (ppb)					
AREA 1							
MW-91	7/2/2019	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	9/10/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/12/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	3/17/2020	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52
	3/17/2020 DUP	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	6/10/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	6/10/2020 DUP	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/10/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/10/2020 DUP	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2020	<0.388	<0.388	<0.388	<0.388	<0.388	<0.388
	3/11/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	6/10/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/23/2021	<0.408	<0.408	<0.408	<0.408	<0.408	<0.408
	12/2/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
3/3/2022	<0.408	<0.408	<0.408	<0.408	<0.408	<0.408	
AREA 2							
MW-17	12/1/2010	0.627 J	<0.971	<0.971	<0.971	<0.971	<0.971
	12/1/2010 DUP	0.62 J	<0.971	<0.971	<0.971	<0.971	<0.971
	6/2/2011	<0.962	<0.962	<0.962	<0.962	<0.962	<0.962
	12/14/2011	<0.952	<0.952	<0.952	<0.952	<0.952	<0.952
	3/27/2012	0.70 J	<0.510	<0.510	<0.510	<0.510	<0.510
	3/27/2012 DUP	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51
	7/6/2012	<0.935	<0.935	<0.935	<0.935	<0.935	<0.935
	12/5/2012	<0.935	1.34	<0.935	<0.935	<0.935	<0.935
	6/19/2013	<2.08	<2.83	<2.83	<2.83	<2.83	<2.83
	6/19/2013 DUP	<2.08	<2.83	<2.83	<2.83	<2.83	<2.83
	12/16/2013	<2.12	<2.88	<2.88	<2.88	<2.88	<2.88
	12/16/2013 DUP	<2.12	<2.88	<2.88	<2.88	<2.88	<2.88
	6/11/2014	<2.10	<2.86	<2.86	<2.86	<2.86	<2.86
	6/11/2014 DUP	<2.10	<2.86	<2.86	<2.86	<2.86	<2.86
	12/23/2014	<2.08	<2.83	<2.83	<2.83	<2.83	<2.83
	12/23/2014 DUP	<2.08	<2.83	<2.83	<2.83	<2.83	<2.83
	7/6/2015	0.297	<0.381	<0.381	<0.381	<0.381	<0.381
	12/17/2015	0.641	<0.385	<0.385	<0.385	<0.385	<0.385
	6/22/2016	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	6/22/2016 DUP	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	12/9/2016	<0.374 H	<0.374 H	<0.374 H	<0.374 H	<0.374 H	<0.374 H
	12/9/2016 DUP	<0.374 H	<0.374 H	<0.374 H	<0.374 H	<0.374 H	<0.374 H
	6/28/2017	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/13/2017	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	12/13/2017 DUP	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/27/2018	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/19/2018	0.696	<0.374	<0.374	<0.374	<0.374	0.508
	3/6/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	6/19/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
ROD Cleanup Level ⁷ .		0.2	NA	NA	NA	NA	NA
JSCS SLV ⁸ .		2.2	3	3	3	3	3

Please refer to notes at end of table.

Table E-5**Historical Groundwater Analytical Results—Phthalates**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	Bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate
		Concentrations in µg/L (ppb)					
		AREA 2					
MW-17 (continued)	9/10/2019	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	12/16/2019	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	12/16/2019 DUP	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	3/18/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/11/2020	<0.385	<0.385	<0.385	<0.385	<0.385	<0.385
	9/11/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/3/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	3/10/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	3/10/2021 DUP	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	6/9/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	9/21/2021	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404
	12/1/2021	<0.412	<0.412	<0.412	<0.412	<0.412	<0.412
	3/1/2022	<0.440	<0.440	<0.440	<0.440	<0.440	<0.440
MW-31	8/20/2009	<0.952	<0.952	<0.952	<0.952	<0.952	<0.952
	8/20/2009 DUP	0.713 J	<0.952	<0.952	<0.952	<0.952	<0.952
	1/21/2019	<0.392	<0.392	<0.392	<0.392	<0.392	<0.392
MW-66	12/16/2013	<10.5	<14.3	<14.4	<14.5	<14.6	<14.7
	6/27/2017	0.968 J	<1.51	<1.51	<1.51	<1.51	<1.51
	1/21/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
MW-81	12/8/2009	1.03	<0.962	<0.962	<0.962	<0.962	<0.962
	12/8/2009 DUP	0.912	<0.962	<0.962	<0.962	<0.962	<0.962
	12/1/2010	0.971	<0.952	<0.952	<0.952	<0.952	<0.952
	12/15/2011	<0.952	<0.952	<0.952	<0.952	<0.952	<0.952
	3/28/2012	<0.510	<0.510	<0.510	<0.510	<0.510	<0.510
	7/6/2012	<0.935	<0.935	<0.935	<0.935	<0.935	<0.935
	12/5/2012	1.29	1.56	<0.935	<0.935	<0.935	<0.935
	12/16/2013	<10.5	<14.3	<14.3	<14.3	<14.3	<14.3
	12/23/2014	<2.08	<2.83	<2.83	<2.83	<2.83	<2.83
	12/17/2015	0.990 J	<1.52	<1.52	<1.52	<1.52	<1.52
	12/9/2016	<1.50 H	<1.50 H	<1.50 H	<1.50 H	<1.50 H	<1.50 H
	12/13/2017	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	12/17/2018	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	12/16/2019	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
MW-82	7/2/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/10/2019	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	12/12/2019	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60
	3/17/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	6/10/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	9/9/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	12/1/2020	<1.63	<1.63	<1.63	<1.63	<1.63	<1.63
	3/10/2021	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52
	6/9/2021	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/22/2021	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/1/2021	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396
	3/2/2022	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404
	ROD Cleanup Level ⁷ .		0.2	NA	NA	NA	NA
JSCS SLV ⁸ .		2.2	3	3	3	3	3

Please refer to notes at end of table.

Table E-5**Historical Groundwater Analytical Results—Phthalates**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	Bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate
		Concentrations in µg/L (ppb)					
AREA 2							
MW-83	7/2/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/11/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/12/2019	<1.67	<1.67	<1.67	<1.67	<1.67	<1.67
	3/18/2020	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	6/11/2020	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	9/9/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	12/1/2020	<0.421	<0.421	<0.421	<0.421	<0.421	<0.421
	3/10/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/9/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/22/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2021	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396
	3/1/2022	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404
MW-84	7/2/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/10/2019	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	12/16/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	3/18/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/10/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	9/10/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2020	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404
	3/9/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	6/9/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/23/2021	<0.408	<0.408	<0.408	<0.408	<0.408	<0.408
	12/1/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	3/2/2022	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404
MW-85	7/2/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/11/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/12/2019	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52
	3/18/2020	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	6/11/2020	<0.385	<0.385	<0.385	<0.385	<0.385	<0.385
	9/11/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/3/2020	<0.408	<0.408	<0.408	<0.408	<0.408	<0.408
	3/10/2021	<0.385	<0.385	<0.385	<0.385	<0.385	<0.385
	6/9/2021	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404
	9/22/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/22/2021 DUP	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396
	12/1/2021	<0.412	<0.412	<0.412	<0.412	<0.412	<0.412
	3/1/2022	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396
ROD Cleanup Level ⁷ .		0.2	NA	NA	NA	NA	NA
JSCS SLV ⁸ .		2.2	3	3	3	3	3

Please refer to notes at end of table.

Table E-5**Historical Groundwater Analytical Results—Phthalates**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	Bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate
		Concentrations in µg/L (ppb)					
AREA 2							
MW-92	7/2/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/10/2019	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52
	12/12/2019	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	3/18/2020	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	6/11/2020	<0.385	<0.385	<0.385	<0.385	<0.385	<0.385
	9/11/2020	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	12/3/2020	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396
	3/10/2021	<0.374	<0.374	<0.374	<0.374	<0.374	<0.374
	6/9/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	9/22/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	3/1/2022	<0.388	<0.388	<0.388	<0.388	<0.388	<0.388
SMW-12	12/7/2009	<0.971	<0.971	<0.971	<0.971	<0.971	<0.971
SCHNITZER ASD YARD							
MW-14	1/21/2019	<1.67	<1.67	<1.67	<1.67	<1.67	<1.67
	3/5/2019	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	6/20/2019	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	9/11/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/11/2019	<1.62	<1.62	<1.62	<1.62	<1.62	<1.62
	12/11/2019 DUP	<1.57	<1.57	<1.57	<1.57	<1.57	<1.57
	3/18/2020	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	6/10/2020	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/9/2020	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/3/2020	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	3/11/2021	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	6/8/2021	<1.55	<1.55	<1.55	<1.55	<1.55	<1.55
	Well decommissioned in January 2022						
MW-79	8/20/2009	0.821 J	<0.971	<0.971	<0.971	<0.971	<0.971
	8/20/2009 DUP	1.66	<0.962	<0.962	<0.962	<0.962	<0.962
	12/8/2009	<0.962	<0.962	<0.962	<0.962	<0.962	<0.962
	12/8/2009 DUP	0.603 J	<0.962	<0.962	<0.962	<0.962	<0.962
	6/3/2010	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966
	12/1/2010	0.781 J	<0.952	<0.952	<0.952	<0.952	<0.952
	6/2/2011	<0.971	<0.971	<0.971	<0.971	<0.971	<0.971
	6/2/2011 DUP	<0.966	<0.966	<0.966	<0.966	<0.966	<0.966
	12/16/2011	-	<0.952	<0.952	<0.952	<0.952	<0.952
	3/28/2012	1.80	<0.510	<0.510	<0.510	<0.510	<0.510
	7/6/2012	1.35	<0.935	<0.935	<0.935	<0.935	<0.935
	12/5/2012	<0.935	1.36	<0.935	<0.935	<0.935	<0.935
	6/19/2013	<8.30	<11.3	<11.3	<11.3	<11.3	<11.3
	12/13/2013	<8.38	<11.4	<11.4	<11.4	<11.4	<11.4
	6/12/2014	<2.12	<2.88	<2.88	<2.88	<2.88	<2.88
	12/19/2014	<8.30	<11.3	<11.3	<11.3	<11.3	<11.3
12/18/2015	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52	
ROD Cleanup Level ⁷ .		0.2	NA	NA	NA	NA	NA
JSCS SLV ⁸ .		2.2	3	3	3	3	3

Please refer to notes at end of table.

Table E-5**Historical Groundwater Analytical Results—Phthalates**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	Bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate
		Concentrations in µg/L (ppb)					
SCHNITZER ASD YARD							
MW-79 (continued)	6/23/2016	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	12/12/2016	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	6/28/2017	0.968 J	<1.51	<1.51	<1.51	<1.51	<1.51
	12/14/2017	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	6/26/2018	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52
	12/18/2018	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	6/20/2019	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	12/10/2019	<0.748	<0.748	<0.748	<0.748	<0.748	<0.748
6/11/2020	<0.385	<0.385	<0.385	<0.385	<0.385	<0.385	
MW-80	12/8/2009	<0.962	<0.962	<0.962	<0.962	<0.962	<0.962
MW-86	7/2/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/10/2019	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60
	12/13/2019	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65
	3/18/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	6/12/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	9/9/2020	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/3/2020	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	3/11/2021	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52
	6/8/2021	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	9/22/2021	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	11/30/2021	<1.70	<1.70	<1.70	<1.70	<1.70	<1.70
3/1/2022	<1.65	<1.65	<1.65	<1.65	<1.65	<1.65	
MW-87	7/2/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	7/2/2019 DUP	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/11/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/11/2019 DUP	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/11/2019	<1.68	<1.68	<1.68	<1.68	<1.68	<1.68
	3/18/2020	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	6/12/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	9/9/2020	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/2/2020	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	3/11/2021	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52
	6/8/2021	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	9/23/2021	<1.63	<1.63	<1.63	<1.63	<1.63	<1.63
	12/1/2021	<1.52	<1.52	<1.52	<1.52	<1.52	<1.52
	3/1/2022	<0.392	<0.392	<0.392	<0.392	<0.392	<0.392
ROD Cleanup Level ⁷ .		0.2	NA	NA	NA	NA	NA
JSCS SLV ⁸ .		2.2	3	3	3	3	3

Please refer to notes at end of table.

Table E-5**Historical Groundwater Analytical Results—Phthalates**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	Bis(2-Ethylhexyl)phthalate	Butyl benzyl phthalate	Diethylphthalate	Dimethyl phthalate	Di-N-Butyl phthalate	Di-N-Octyl phthalate
		Concentrations in µg/L (ppb)					
		SCHNITZER ASD YARD					
MW-88	7/2/2019	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	9/11/2019	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	12/13/2019	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	3/18/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	6/12/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	9/11/2020	<1.55	<1.55	<1.55	<1.55	<1.55	<1.55
	12/3/2020	<1.51	<1.51	<1.51	<1.51	<1.51	<1.51
	12/3/2020 DUP	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	3/11/2021	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	6/11/2021	<1.60	<1.60	<1.60	<1.60	<1.60	<1.60
	9/23/2021	<1.62	<1.62	<1.62	<1.62	<1.62	<1.62
	11/30/2021	<1.63	<1.63	<1.63	<1.63	<1.63	<1.63
3/2/2022	<1.63	<1.63	<1.63	<1.63	<1.63	<1.63	
MW-89	7/2/2019	<1.57	<1.57	<1.57	<1.57	<1.57	<1.57
	9/10/2019	<1.78	<1.78	<1.78	<1.78	<1.78	<1.78
	12/16/2019	<1.54	<1.54	<1.54	<1.54	<1.54	<1.54
	3/18/2020	<1.50	<1.50	<1.50	<1.50	<1.50	<1.50
	6/11/2020	<0.385	<0.385	<0.385	<0.385	<0.385	<0.385
	9/9/2020	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2020	<0.412	<0.412	<0.412	<0.412	<0.412	<0.412
	3/11/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	6/11/2021	<0.396	<0.396	<0.396	<0.396	<0.396	<0.396
	9/22/2021	<0.377	<0.377	<0.377	<0.377	<0.377	<0.377
	12/1/2021	<0.381	<0.381	<0.381	<0.381	<0.381	<0.381
	3/2/2022	<0.404	<0.404	<0.404	<0.404	<0.404	<0.404
3/2/2022 DUP	<0.408	<0.408	<0.408	<0.408	<0.408	<0.408	
MW-93	12/29/2021	<1.67	<1.67	<1.67	<1.67	<1.67	<1.67
	3/2/2022	<1.63	<1.63	<1.63	<1.63	<1.63	<1.63
ROD Cleanup Level ⁷ .		0.2	NA	NA	NA	NA	NA
JSCS SLV ⁸ .		2.2	3	3	3	3	3

Notes:

1. Phthalates by EPA 8270 SIM.
2. µg/L (ppb) = micrograms per liter (parts per billion).
3. J = result is less than the reporting limit, but greater than or equal to the detection limit.
4. -- = not analyzed or not applicable.
5. **Bold** denotes analyte detected above laboratory reporting limit.
6. H = Holding time violation. Reported values are minimum concentrations.
7. ROD Cleanup Levels from U.S. EPA Errata #2 for the Record of Decision Table 17 for Portland Harbor Superfund Site, Portland, Oregon, January 2020. The level shown is the Groundwater Cleanup Level unless one was not available, in which case the Surface Water Cleanup Level was used, per DEQ Guidance.
8. JSCS SLV = Screening Level Values from Portland Harbor Joint Source Control Strategy (JSCS), December 2005.
9. NA = Cleanup Level and SLV not available for this analyte.
10. < = constituent was not detected at a concentration greater than laboratory method reporting limit shown.
11. Shading denotes analyte detected above screening criteria. As instructed by DEQ, concentrations of analytes were compared to the Portland Harbor Cleanup Level. If neither a Groundwater or Surface Water Cleanup Level was available, the data were compared to the Joint Source Control Strategy Screening Level Value.

Table E-6**Historical Groundwater Analytical Results—Polychlorinated Biphenyls**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	PCBs						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		Concentrations in µg/L (ppb)						
AREA 1								
MW-90	7/2/2019	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	9/10/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/12/2019	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	3/17/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/9/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/9/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/1/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/8/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/22/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/2/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/2/2022	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
MW-91	7/2/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/10/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/12/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	3/17/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/10/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/10/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/1/2020	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	12/1/2020 DUP	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
	3/11/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/10/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/23/2021	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
	12/2/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/3/2022	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
AREA 2								
MW-17	1/21/2019	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
	3/6/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/19/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/10/2019	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	12/16/2019	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	12/16/2019 DUP	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	3/18/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/11/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/11/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/3/2020	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
	3/10/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/10/2021 DUP	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/9/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/21/2021	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990
	12/1/2021	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
	3/1/2022	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990
	MW-31	1/21/2019	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
MW-66	1/21/2019	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
ROD Cleanup Level ⁶ .		0.014						
JSCS SLV ⁷ .		0.96	0.034	0.034	0.034	0.034	0.033	0.034

Please refer to notes at end of table.

Table E-6**Historical Groundwater Analytical Results—Polychlorinated Biphenyls**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	PCBs						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		Concentrations in µg/L (ppb)						
AREA 2								
MW-81	12/1/2010	<0.485	<0.971	<0.485	<0.485	<0.485	<0.485	<0.485
	12/15/2011	<0.0943	<0.189	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/28/2012	<0.0530	<0.110	<0.0530	<0.0530	<0.0530	<0.0530	<0.0530
	7/6/2012	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/5/2012	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/16/2013	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377
	12/23/2014	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377
	12/17/2015	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385	<0.0385
	12/9/2016	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374
	12/14/2017	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/17/2018	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	12/16/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
MW-82	7/2/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/10/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/12/2019	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	3/17/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/10/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/9/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/1/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/10/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/9/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/22/2021	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
	12/1/2021	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
	3/2/2022	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
MW-83	7/2/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/11/2019	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	12/12/2019	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	3/18/2020	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
	6/11/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/9/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/1/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/10/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/9/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/22/2021	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
	12/1/2021	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
	3/1/2022	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
	3/1/2022 DUP	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
ROD Cleanup Level ⁶ .		0.014						
JSCS SLV ⁷ .		0.96	0.034	0.034	0.034	0.034	0.033	0.034

Please refer to notes at end of table.

Table E-6
Historical Groundwater Analytical Results—Polychlorinated Biphenyls

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	PCBs						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		Concentrations in µg/L (ppb)						
AREA 2								
MW-84	7/2/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/10/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/16/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	3/18/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/10/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/10/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/1/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/9/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/9/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/23/2021	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
	12/1/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	3/2/2022	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
MW-85	7/2/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/11/2019	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	12/12/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/18/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/11/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/11/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/3/2020	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980
	3/10/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/9/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/22/2021	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105
	12/1/2021	<0.103	<0.103	<0.103	<0.103	<0.103	<0.103	<0.103
	12/1/2021 DUP	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
3/1/2022	<0.103	<0.103	<0.103	<0.103	<0.103	<0.103	<0.103	
MW-92	7/2/2019	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	9/10/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/12/2019	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
	3/18/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/11/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/11/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/3/2020	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	3/10/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/9/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/22/2021	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
	12/1/2021	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	3/1/2022	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
ROD Cleanup Level ⁶		0.014						
JSCS SLV ⁷		0.96	0.034	0.034	0.034	0.034	0.033	0.034

Please refer to notes at end of table.

Table E-6**Historical Groundwater Analytical Results—Polychlorinated Biphenyls**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	PCBs						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		Concentrations in µg/L (ppb)						
SCHNITZER ASD YARD								
MW-14	1/21/2019	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
	3/5/2019	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	6/20/2019	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
	9/11/2019	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	12/11/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	3/18/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/10/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/9/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/3/2020	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	3/11/2021	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	6/8/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	Well decommissioned in January 2022							
MW-74	12/2/2010	<0.490	<0.980	<0.490	<0.490	<0.490	<0.490	<0.490
	12/16/2011	<0.0943	<0.189	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/28/2012	<0.0510	<0.10	<0.0510	<0.0510	<0.0510	<0.0510	<0.0510
	7/6/2012	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/5/2012	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/22/2014	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377
	12/16/2015	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392
	12/9/2016	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374
	12/13/2017	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	12/19/2018	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/13/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	MW-76	12/2/2010	<0.485	<0.971	<0.485	<0.485	<0.485	<0.485
12/16/2011		<0.0943	<0.189	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
12/16/2011 DUP		<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
3/28/2012		<0.0530	<0.110	<0.0530	<0.0530	<0.0530	<0.0530	<0.0530
3/28/2012 DUP		<0.053	<0.11	<0.053	<0.053	<0.053	<0.053	<0.053
7/6/2012		<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
12/5/2012		<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
12/16/2013		<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392
12/19/2014		<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381
12/23/2015		<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381
12/7/2016		<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374	<0.0374
12/13/2017		<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
12/19/2018		<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
12/16/2019		<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
MW-79	12/19/2014	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381	<0.0381
ROD Cleanup Level ⁶ .		0.014						
JSCS SLV ⁷ .		0.96	0.034	0.034	0.034	0.034	0.033	0.034

Please refer to notes at end of table.

Table E-6**Historical Groundwater Analytical Results—Polychlorinated Biphenyls**

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	PCBs						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		Concentrations in µg/L (ppb)						
SCHNITZER ASD YARD								
MW-86	7/2/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/10/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/13/2019	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962	<0.0962
	3/18/2020	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	6/12/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/9/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	12/3/2020	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	3/11/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/8/2021	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110
	9/22/2021	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
	11/30/2021	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
	3/1/2022	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
MW-87	7/2/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	7/2/2019 DUP	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/11/2019	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
	9/11/2019 DUP	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/11/2019	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971	<0.0971
	3/18/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/12/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/9/2020	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	12/2/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/11/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/8/2021	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990	<0.0990
	6/8/2021 DUP	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/23/2021	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
	12/1/2021	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105	<0.105
	3/1/2022	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104	<0.104
MW-88	7/2/2019	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/11/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/13/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/18/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	3/18/2020 DUP	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/12/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/12/2020 DUP	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/11/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/11/2020 DUP	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	12/3/2020	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	3/11/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/11/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/23/2021	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
	9/23/2021 DUP	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
	11/30/2021	<0.108	<0.108	<0.108	<0.108	<0.108	<0.108	<0.108
	3/2/2022	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
ROD Cleanup Level ⁶		0.014						
JSCS SLV ⁷		0.96	0.034	0.034	0.034	0.034	0.033	0.034

Please refer to notes at end of table.

Table E-6

Historical Groundwater Analytical Results—Polychlorinated Biphenyls

Gunderson LLC

Portland, Oregon

Well ID	Sample Date	PCBs						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		Concentrations in µg/L (ppb)						
SCHNITZER ASD YARD								
MW-89	7/2/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/10/2019	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	12/16/2019	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/18/2020	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	6/11/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	9/9/2020	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952	<0.0952
	12/1/2020	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	3/11/2021	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
	6/11/2021	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935	<0.0935
	9/22/2021	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
	12/1/2021	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106
	3/2/2022	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106	<0.106
MW-93	12/29/2021	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102	<0.102
	3/2/2022	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101	<0.101
ROD Cleanup Level ⁶ .		0.014						
JSCS SLV ⁷ .		0.96	0.034	0.034	0.034	0.034	0.033	0.034

Notes:

1. PCBs = polychlorinated biphenyls by EPA 8082.
2. µg/L (ppb) = micrograms per liter (parts per billion).
3. – = not analyzed or not applicable.
4. **Bold** denotes analyte detected above laboratory reporting limit.
5. J = result is less than the reporting limit, but greater than or equal to the detection limit.
6. ROD Cleanup Levels from U.S. EPA Errata #2 for the Record of Decision Table 17 for Portland Harbor Superfund Site, Portland, Oregon, January 2020. The level shown is the Groundwater Cleanup Level unless one was not available, in which case the Surface Water Cleanup Level was used, per DEQ Guidance.
7. JSCS SLV = Screening Level Values from Portland Harbor Joint Source Control Strategy (JSCS), December 2005.
8. < = constituent was not detected at a concentration greater than laboratory method reporting limit shown.

APPENDIX F
EPA Groundwater Statistics Tool Evaluation of Area 1
VOC Concentration Trends

WELL MW-103

PCE

Groundwater Statistics Tool

Data input worksheet

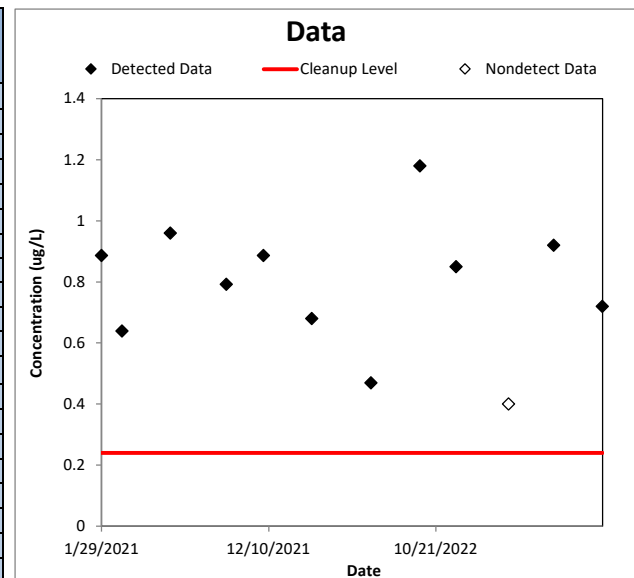
Site Name	Gunderson
Operable Unit (OU)	Area 1
Type of Evaluation	Attainment
Date of Evaluation	11/26/2023
Person performing analysis	SR

Chemical of Concern	PCE
Well Name/Number	MW-103
Date Units	
Concentration Units	ug/L

Confidence Level Desired	95%
Cleanup Level	0.24
Source of cleanup level (e.g. MCL or risk-based concentration)	MCL
Risk of False Outlier Rejection	1%
Random Seed (may be left blank)	62311.42188
Significant figures to use	3

Number of data points:	12
Number of detected results:	11
Number of nondetect results:	1
Detection frequency:	92%

Date (Date)	PCE Conc. (ug/L)	Data Qualifier	Detected? (Yes or No)
1/29/2021	0.887		Yes
3/9/2021	0.64		Yes
6/8/2021	0.96		Yes
9/21/2021	0.792		Yes
11/30/2021	0.887		Yes
3/1/2022	0.68		Yes
6/21/2022	0.47		Yes
9/21/2022	1.18		Yes
11/28/2022	0.85		Yes
3/7/2023	0.4	ND	No
5/31/2023	0.92		Yes
8/31/2023	0.72		Yes



Data Review		Recommendations
Are all necessary data fields entered, and in proper format?	Yes	None
Are at least 4 data points present for statistical analysis?	Yes	None
Are at least 8 data points present for an attainment evaluation?	Yes	None
Are detection limits for nondetects ≤ maximum detected value?	Yes	None
Are all data within chart axis limits?	Yes	None
Select Axis Values and Press "Reset Axes" after entering data.		

Axis Values			
Time		Concentration	
Min	Max	Min	Max
Auto	Auto	Auto	Auto
Reset Axes			

Pressing the "Check for Outliers" button to the right will open a worksheet that shows the results of a Dixons's test for outliers.

Next Step: Check for Outliers

Groundwater Statistics Tool

Trend test results for datasets with normally distributed residuals

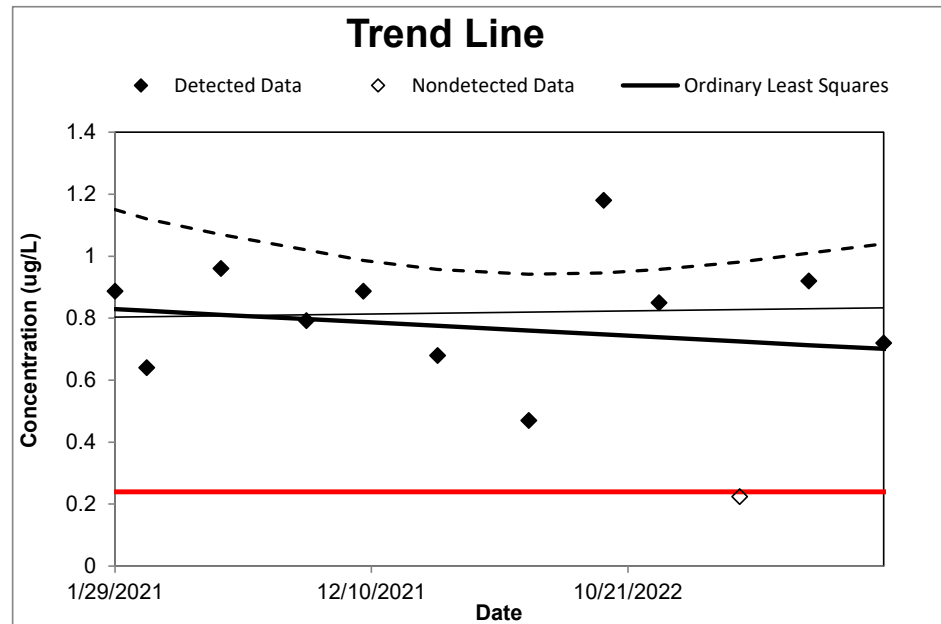
i	t (Date)	C (ug/L)	C Predicted	Fit residual	Upper Confidence Band
1	1/29/2021	0.887	0.829	0.058	1.15
2	3/9/2021	0.64	0.824	-0.184	1.12
3	6/8/2021	0.96	0.811	0.149	1.07
4	9/21/2021	0.792	0.797	-0.005	1.02
5	11/30/2021	0.887	0.788	0.099	0.986
6	3/1/2022	0.68	0.775	-0.095	0.957
7	6/21/2022	0.47	0.76	-0.29	0.942
8	9/21/2022	1.18	0.748	0.432	0.946
9	11/28/2022	0.85	0.738	0.112	0.957
10	3/7/2023	0.224	0.725	-0.501	0.981
11	5/31/2023	0.92	0.713	0.207	1.01
12	8/31/2023	0.72	0.701	0.019	1.04
13					
14					
15					
16					
17					
18					
19					
20					

Select Axis Values and press "Reset Axes" to see future trends.

Axis Values			
Time		Concentration	
Min	Max	Min	Max
AUTO	AUTO	AUTO	AUTO

Reset Axes

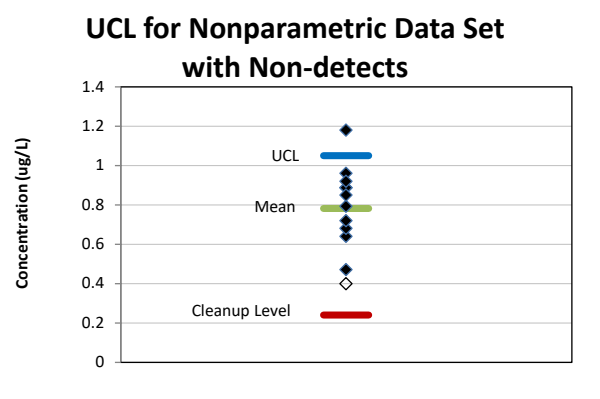
Ordinary Least Squares	
Slope	-0.000136
Intercept	6.84
R ²	0.0030
Test result	No trend
Test statistic	-0.563
Critical value	1.812
Trend type	Normal
When concentration is predicted to achieve the cleanup level	12/11/2032
When concentration is predicted to exceed the cleanup level	NA



Previous Step: Normality Screen

UCL calculations data sets with non-detects

Mean of concentration	0.782
Standard deviation of concentration	0.207
95% Upper Confidence Limit (UCL)	1.05
Is the 95% UCL greater than the cleanup level?	Yes



[Restart: Data Input Screen](#)
[Previous Step: Trend Screen](#)
[-](#)

Data, including imputed values

[illegible]

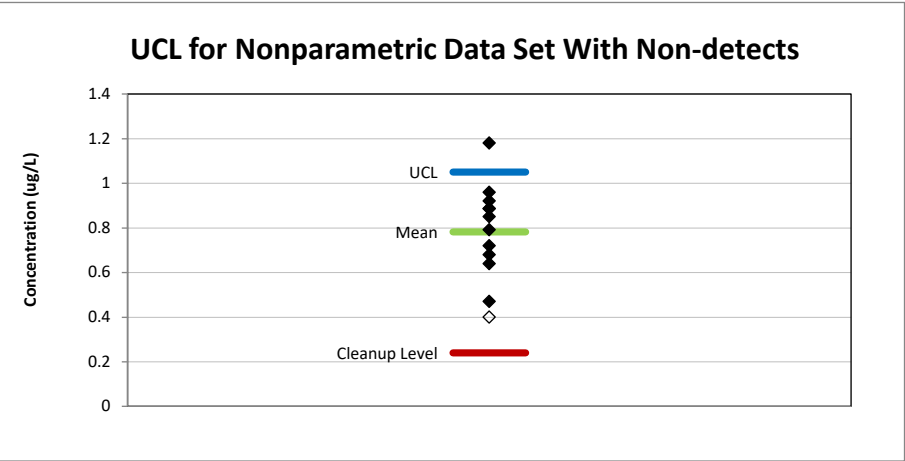
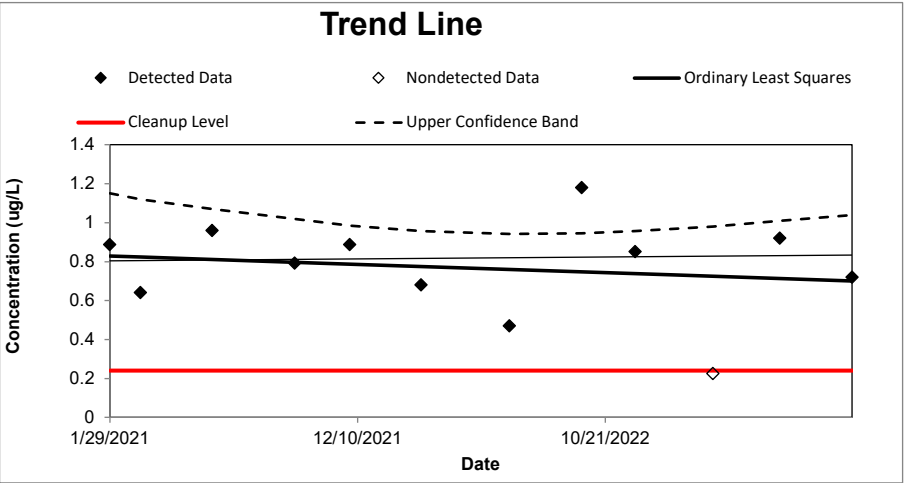
Groundwater Statistics Tool

Site & Summary Statistics for Nonparametric Data Sets with Non-detects and Normal Residuals

General Information	
Analyst	SR
Date of Evaluation	11/26/2023
Site Name	Gunderson
Operable Unit	Area 1
Type of Evaluation	Attainment
Well Name/Number	MW-103
Chemical of Concern	PCE
Concentration Units	ug/L
Cleanup Level	0.24
Source of Cleanup Level	MCL
Confidence Level	95%
Risk of False Outlier Rejection	1%
Number of Results	12
Outliers present?	No
Number of Non-Detects	1

Trend Analysis	
Trend Type	Normal
Method	Ordinary Least Squares
Is the Upper Confidence Band above the cleanup level?	NA
Slope	-0.000136
Intercept	6.84
R ²	0.0030
Test Result	No trend
When concentration is predicted to achieve the cleanup level	12/11/2032
When concentration is predicted to exceed the cleanup level	NA

UCL Analysis	
Distribution Type	Nonparametric
Test	KM Chebyshev UCL
Mean	0.782
95% UCL	1.05
Is the 95% UCL greater than the cleanup level?	Yes



WELL MW-103
Total Molar VOCs

Groundwater Statistics Tool

Data input worksheet

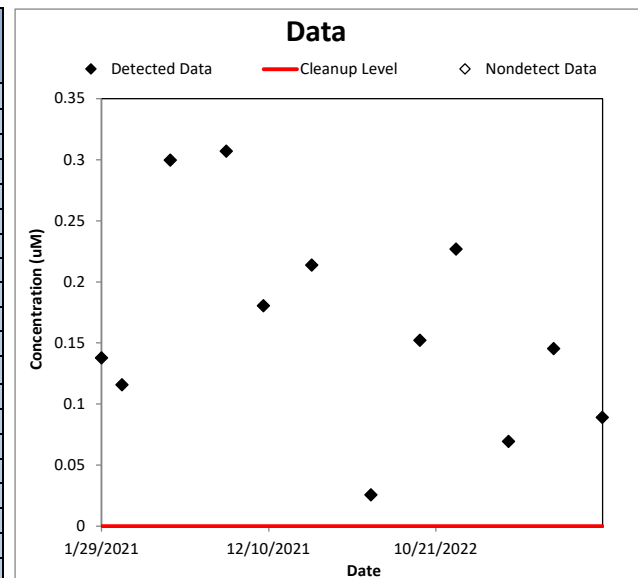
Site Name	Gunderson
Operable Unit (OU)	Area
Type of Evaluation	Remediation
Date of Evaluation	11/26/2023
Person performing analysis	SR

Chemical of Concern	Molar HVOcs
Well Name/Number	MW-103
Date Units	Date
Concentration Units	uM

Confidence Level Desired	95%
Cleanup Level	
Source of cleanup level (e.g. MCL or risk-based concentration)	
Risk of False Outlier Rejection	1%
Random Seed (may be left blank)	62311.42188
Significant figures to use	3

Number of data points:	12
Number of detected results:	12
Number of nondetect results:	0
Detection frequency:	100%

Date (Date)	Molar HVOcs Conc. (uM)	Data Qualifier	Detected? (Yes or No)
1/29/2021	0.137741994		Yes
3/9/2021	0.115950581		Yes
6/8/2021	3.00E-01		Yes
9/21/2021	3.07E-01		Yes
11/30/2021	1.81E-01		Yes
3/1/2022	0.213912935		Yes
6/21/2022	0.025779127		Yes
9/21/2022	0.152277244		Yes
11/28/2022	0.2268491		Yes
3/7/2023	0.069502		Yes
5/31/2023	1.46E-01		Yes
8/31/2023	8.90E-02		Yes



Data Review		Recommendations
Are all necessary data fields entered, and in proper format?	Yes	None
Are at least 4 data points present for statistical analysis?	Yes	None
Are at least 8 data points present for an attainment evaluation?	Yes	None
Are detection limits for nondetects ≤ maximum detected value?	Yes	None
Are all data within chart axis limits?	Yes	None
Select Axis Values and Press "Reset Axes" after entering data.		

Axis Values			
Time		Concentration	
Min	Max	Min	Max
Auto	Auto	Auto	Auto

Pressing the "Check for Outliers" button to the right will open a worksheet that shows the results of a Dixons's test for outliers.

Groundwater Statistics Tool

Trend test results for datasets with normally distributed residuals

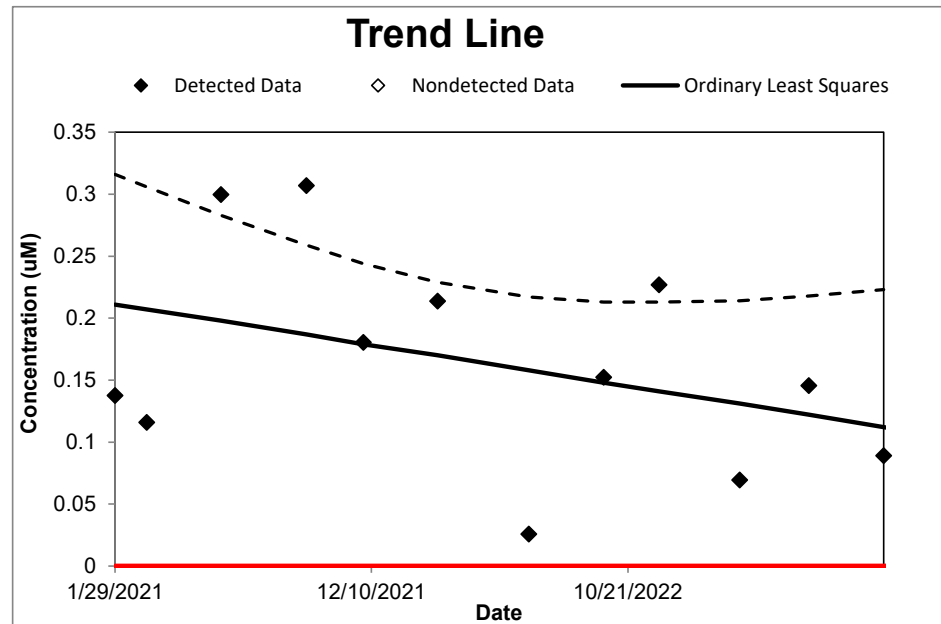
i	t (Date)	C (uM)	C Predicted	Fit residual	Upper Confidence Band
1	1/29/2021	0.137741994	0.211	-0.073258	0.316
2	3/9/2021	0.115950581	0.207	-0.091049	0.306
3	6/8/2021	0.29988883	0.198	0.1018888	0.283
4	9/21/2021	0.307008551	0.187	0.1200086	0.259
5	11/30/2021	0.180525448	0.179	0.0015254	0.244
6	3/1/2022	0.213912935	0.17	0.0439129	0.229
7	6/21/2022	0.025779127	0.158	-0.132221	0.217
8	9/21/2022	0.152277244	0.148	0.0042772	0.213
9	11/28/2022	0.2268491	0.141	0.0858491	0.213
10	3/7/2023	0.069502	0.131	-0.061498	0.214
11	5/31/2023	0.14552	0.122	0.02352	0.218
12	8/31/2023	0.089	0.112	-0.023	0.223
13					
14					
15					
16					
17					
18					
19					
20					

Select Axis Values and press "Reset Axes" to see future trends.

Axis Values			
Time		Concentration	
Min	Max	Min	Max
AUTO	AUTO	AUTO	AUTO

Reset Axes

Ordinary Least Squares	
Slope	-0.000105
Intercept	4.87
R ²	0.1504
Test result	No trend
Test statistic	-1.331
Critical value	1.812
Trend type	Normal
When concentration is predicted to achieve the cleanup level	7/30/2026
When concentration is predicted to exceed the cleanup level	NA



Previous Step: Normality Screen

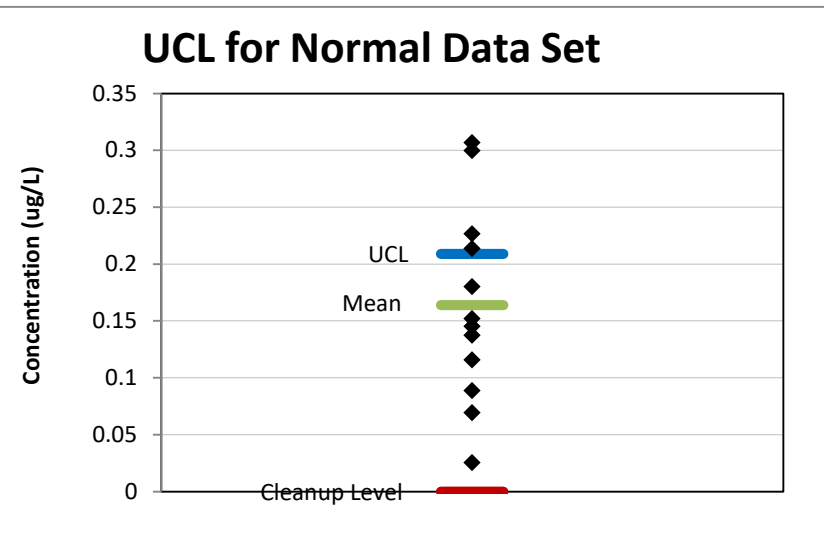
Next Step: UCL Screen

Groundwater Statistics Tool

UCL calculations for normal data sets

Confidence Level	95%
Cleanup level	0
Source of cleanup level	0
Number of results	12
Number < cleanup level	0
Number of non-detects present	0
Are any potential outliers present?	No
Distribution Type	Normal
Method for calculating UCL	Student's t UCL

Mean of concentration	0.164
Standard deviation of concentration	0.0867
t-value for UCL calculation	1.796
95% Upper Confidence Limit (UCL)	0.209
Is the 95% UCL greater than the cleanup level?	Yes



Restart: Data Input Screen

Previous Step: Trend Screen

Next Step: Site & Summary Statistics

Groundwater Statistics Tool

Site & Summary Statistics for Normal Data Sets with Normal Residuals

General Information

Analyst	SR
Date of Evaluation	11/26/2023
Site Name	Gunderson
Operable Unit	Area
Type of Evaluation	Remediation
Well Name/Number	MW-103
Chemical of Concern	Molar HVOCs
Concentration Units	uM
Cleanup Level	0
Source of Cleanup Level	0.000
Confidence Level	95%
Risk of False Outlier Rejection	1%
Number of Results	12
Outliers present?	No
Number of Non-Detects	0

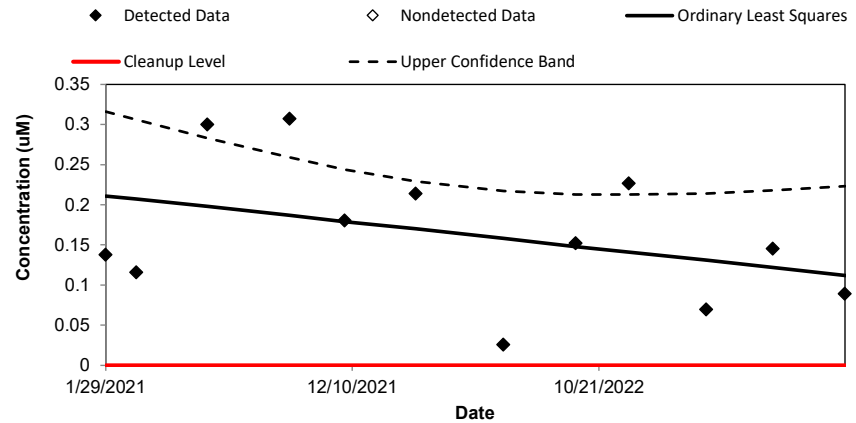
Trend Analysis

Trend Type	Normal
Method	Ordinary Least Squares
Is the Upper Confidence Band above the cleanup level?	Yes
Slope	-0.000105
Intercept	4.87
R ²	0.1504
Test Result	No trend
When concentration is predicted to achieve the cleanup level	7/30/2026
When concentration is predicted to exceed the cleanup level	NA

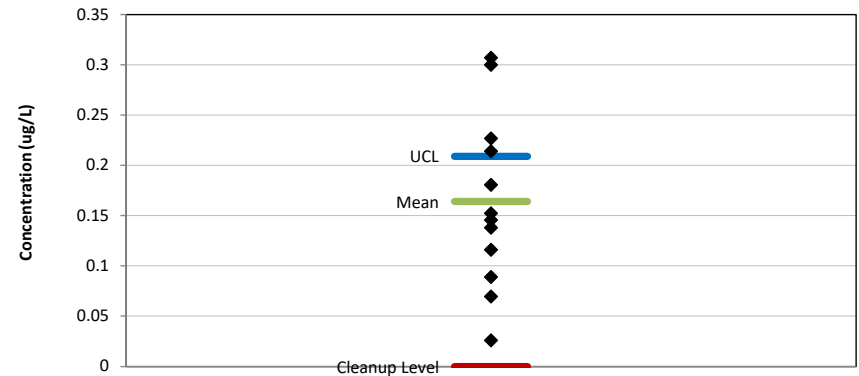
UCL Analysis

Distribution Type	Normal
Test	Student's t UCL
Mean	0.164
95% UCL	0.209
Is the 95% UCL greater than the cleanup level?	Yes

Trend Line



UCL for Normal Data Set



Previous Step: Trend Screen

Previous Step: UCL Screen

Restart: Data Input Screen

APPENDIX G
EPA Groundwater Statistics Tool Evaluation of Metals
Concentration Trends

WELL MW-74

Dissolved Cadmium

Groundwater Statistics Tool

Data input worksheet

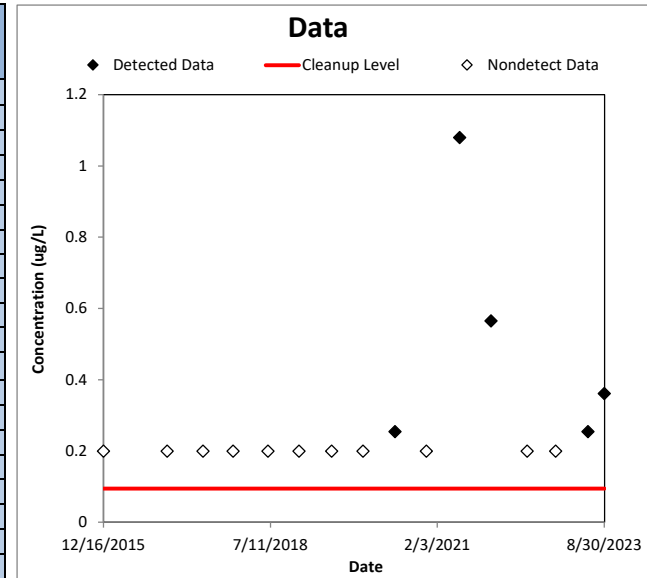
Site Name	Gunderson
Operable Unit (OU)	Area
Type of Evaluation	Attainment
Date of Evaluation	12/14/2023
Person performing analysis	SR

Chemical of Concern	Cadmium (Dissolved)
Well Name/Number	MW-74
Date Units	
Concentration Units	ug/L

Confidence Level Desired	95%
Cleanup Level	0.094
Source of cleanup level (e.g. MCL or risk-based concentration)	MCL
Risk of False Outlier Rejection	1%
Random Seed (may be left blank)	62311.42188
Significant figures to use	3

Number of data points:	16
Number of detected results:	5
Number of nondetect results:	11
Detection frequency:	31%

Date (Date)	(Dissolved) Conc. (ug/L)	Data Qualifier	Detected? (Yes or No)
12/16/2015	0.2	U	No
12/9/2016	0.2	U	No
6/28/2017	0.2	U	No
12/14/2017	0.2	U	No
6/27/2018	0.2	U	No
12/19/2018	0.2	U	No
6/20/2019	0.2	U	No
12/13/2019	0.2	U	No
6/10/2020	0.254		Yes
12/3/2020	0.2	U	No
6/8/2021	1.08		Yes
12/2/2021	0.565		Yes
6/22/2022	0.2	U	No
11/29/2022	0.2	U	No
5/31/2023	0.254		Yes
8/31/2023	0.361		Yes



Data Review		Recommendations
Are all necessary data fields entered, and in proper format?	Yes	None
Are at least 4 data points present for statistical analysis?	Yes	None
Are at least 8 data points present for an attainment evaluation?	Yes	None
Are detection limits for nondetects ≤ maximum detected value?	Yes	None
Are all data within chart axis limits?	Yes	None
Select Axis Values and Press "Reset Axes" after entering data.		

Axis Values			
Time		Concentration	
Min	Max	Min	Max
Auto	Auto	Auto	Auto

Pressing the "Check for Outliers" button to the right will open a worksheet that shows the results of a Dixons's test for outliers.

Groundwater Statistics Tool

Trend test results for datasets with nonparametrically distributed residuals

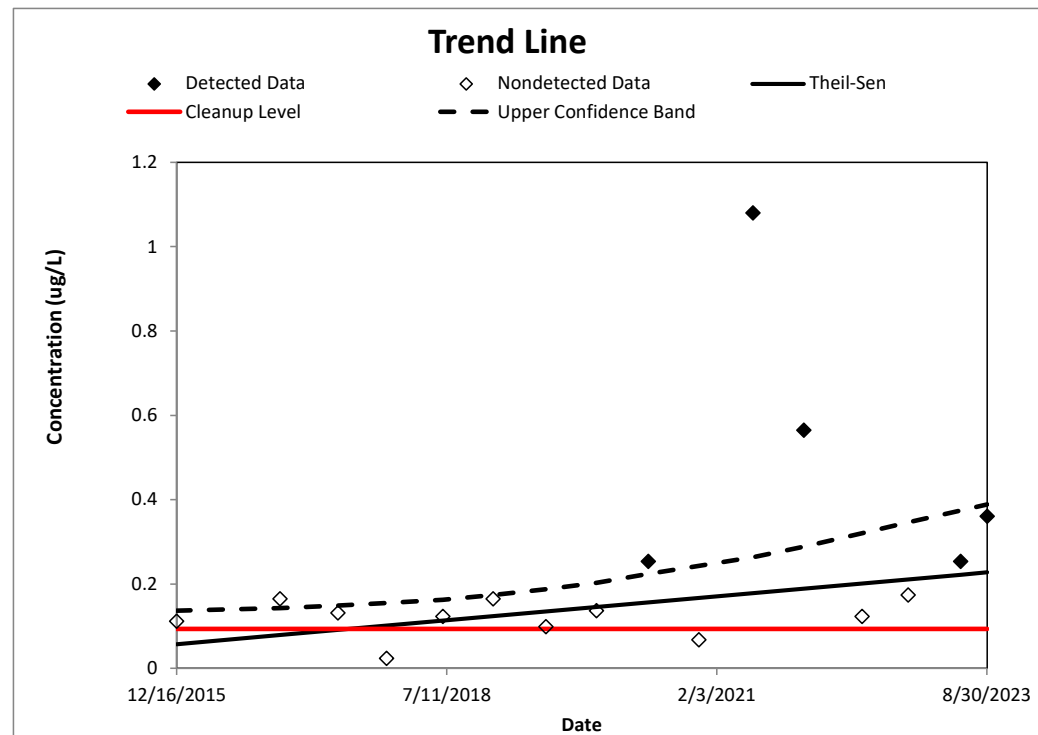
i	t (Date)	C (ug/L)	C Predicted	Residual	Upper Confidence Band
1	12/16/2015	0.112	0.0571	0.0549	0.137
2	12/9/2016	0.165	0.0789	0.0861	0.143
3	6/28/2017	0.132	0.0911	0.0409	0.149
4	12/14/2017	0.0238	0.101	-0.0772	0.155
5	6/27/2018	0.123	0.113	0.01	0.163
6	12/19/2018	0.165	0.124	0.041	0.174
7	6/20/2019	0.0994	0.135	-0.0356	0.187
8	12/13/2019	0.137	0.146	-0.009	0.203
9	6/10/2020	0.254	0.156	0.098	0.224
10	12/3/2020	0.0682	0.167	-0.0988	0.243
11	6/8/2021	1.08	0.178	0.902	0.264
12	12/2/2021	0.565	0.189	0.376	0.289
13	6/22/2022	0.123	0.201	-0.078	0.321
14	11/29/2022	0.174	0.211	-0.037	0.346
15	5/31/2023	0.254	0.222	0.032	0.374
16	8/31/2023	0.361	0.228	0.133	0.389
17					
18					
19					
20					

Mann-Kendall	
Test result	Increasing
Test statistic (S)	45
Normalized S	1.987
Critical value	1.645
Trend type	Nonparametric

Theil-Sen	
Slope	0.0000607
Intercept	-2.51
When concentration is predicted to achieve the cleanup level	NA
When concentration is predicted to exceed the cleanup level	NA

Select Axis Values and press "Reset Axes" to see future trends.

Axis Values			
Time		Concentration	
Min	Max	Min	Max
AUTO	AUTO	AUTO	AUTO
Reset Axes			



Previous Step: Normality Screen

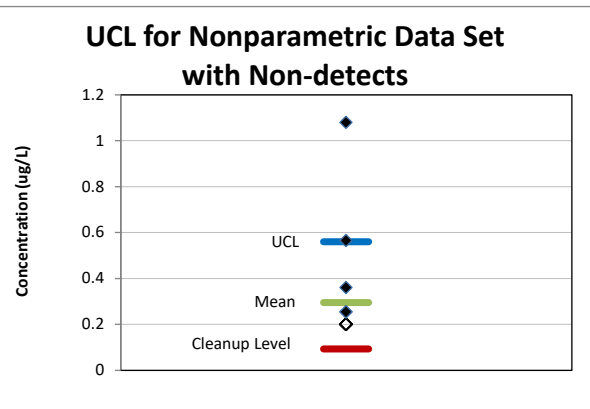
Next Step: UCL

Groundwater Statistics Tool

UCL calculations data sets with non-detects

Confidence Level	95%
Cleanup level	0.094
Source of cleanup level	MCL
Number of results	16
Number of detected results	5
Number of non-detected results	11
Detection frequency	31%
Number at or below cleanup level	0
Are any potential outliers present?	Yes
Distribution type	Nonparametric
Method for calculating UCL	KM Chebyshev UCL

Mean of concentration	0.295
Standard deviation of concentration	0.223
95% Upper Confidence Limit (UCL)	0.561
Is the 95% UCL greater than the cleanup level?	Yes



Data, including imputed values

Date (Date)	(Dissolved) Conc. (ug/L)	Data Qualifier	Imputed value*
12/16/2015	0.2	U	0.112
12/9/2016	0.2	U	0.165
6/28/2017	0.2	U	0.132
12/14/2017	0.2	U	0.0238
6/27/2018	0.2	U	0.123
12/19/2018	0.2	U	0.165
6/20/2019	0.2	U	0.0994
12/13/2019	0.2	U	0.137
6/10/2020	0.254		0.254
12/3/2020	0.2	U	0.0682
6/8/2021	1.08		1.08
12/2/2021	0.565		0.565
6/22/2022	0.2	U	0.123
11/29/2022	0.2	U	0.174
5/31/2023	0.254		0.254
8/31/2023	0.361		0.361
* Note that the imputed value column also includes the actual value for detected samples. This is for convenience in copying and pasting the data.			
Random Seed Used		62311.42188	

Restart: Data Input Screen

Previous Step: Trend Screen

Next Step: Site & Summary Statistics

Groundwater Statistics Tool

Site & Summary Statistics for Nonparametric Data Sets with Non-detects and Nonparametric Residuals

General Information

Analyst	SR
Date of Evaluation	12/14/2023
Site Name	Gunderson
Operable Unit	Area
Type of Evaluation	Attainment
Well Name/Number	MW-74
Chemical of Concern	Cadmium (Dissolved)
Concentration Units	ug/L
Cleanup Level	0.094
Source of Cleanup Level	MCL
Confidence Level	95%
Risk of False Outlier Rejection	1%
Number of Results	16
Outliers present?	Yes
Number of Non-Detects	11

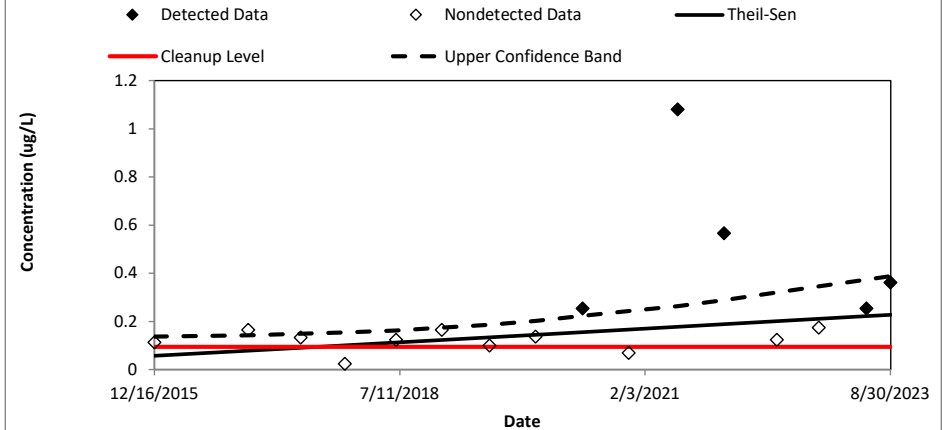
Trend Analysis

Trend Type	Nonparametric
Method	Theil-Sen Line, Mann-Kendall Test
Is the Upper Confidence Band above the cleanup level?	NA
Slope	0.0000607
Intercept	-2.51
Test Result	Increasing
When concentration is predicted to achieve the cleanup level	NA
When concentration is predicted to exceed the cleanup level	NA

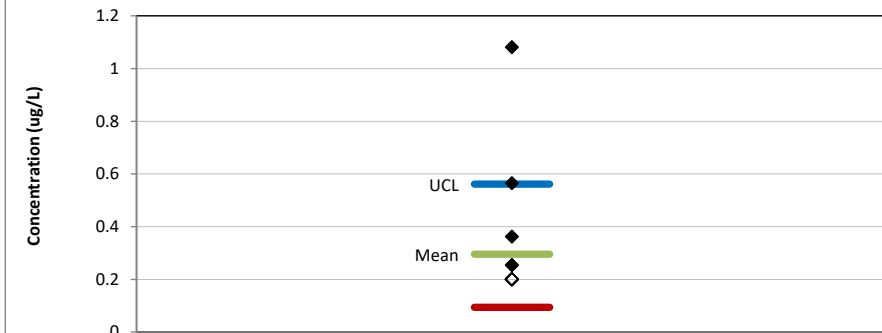
UCL Analysis

Distribution Type	Nonparametric
Test	KM Chebyshev UCL
Mean	0.295
95% UCL	0.561
Is the 95% UCL greater than the cleanup level?	Yes

Trend Line



UCL for Nonparametric Data Set With Non-detects



Previous Step: Trend Screen

Previous Step: UCL Screen

Restart: Data Input Screen

WELL MW-74
Dissolved Copper

Groundwater Statistics Tool

Data input worksheet

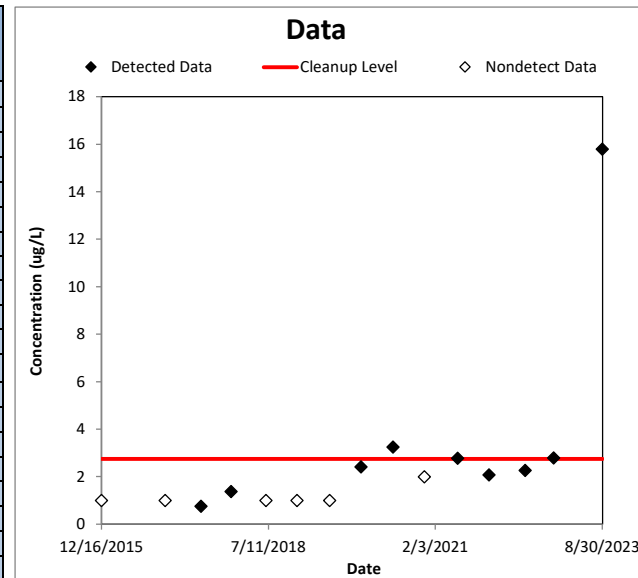
Site Name	Gunderson
Operable Unit (OU)	Area
Type of Evaluation	Attainment
Date of Evaluation	12/14/2023
Person performing analysis	SR

Chemical of Concern	Copper (Dissolved)
Well Name/Number	MW-74
Date Units	
Concentration Units	ug/L

Confidence Level Desired	95%
Cleanup Level	2.74
Source of cleanup level (e.g. MCL or risk-based concentration)	MCL
Risk of False Outlier Rejection	1%
Random Seed (may be left blank)	62311.42188
Significant figures to use	3

Number of data points:	15
Number of detected results:	9
Number of nondetect results:	6
Detection frequency:	60%

Date (Date)	(Dissolved) Conc. (ug/L)	Data Qualifier	Detected? (Yes or No)
12/16/2015	1	U	No
12/9/2016	1	U	No
6/28/2017	0.756		Yes
12/14/2017	1.38		Yes
6/27/2018	1	U	No
12/19/2018	1	U	No
6/20/2019	1	U	No
12/13/2019	2.41		Yes
6/10/2020	3.25		Yes
12/3/2020	2	U	No
6/8/2021	2.78		Yes
12/2/2021	2.08		Yes
6/22/2022	2.26		Yes
11/29/2022	2.79		Yes
8/31/2023	15.8		Yes



Data Review		Recommendations
Are all necessary data fields entered, and in proper format?	Yes	None
Are at least 4 data points present for statistical analysis?	Yes	None
Are at least 8 data points present for an attainment evaluation?	Yes	None
Are detection limits for nondetects ≤ maximum detected value?	Yes	None
Are all data within chart axis limits?	Yes	None
Select Axis Values and Press "Reset Axes" after entering data.		

Axis Values			
Time		Concentration	
Min	Max	Min	Max
Auto	Auto	Auto	Auto

Pressing the "Check for Outliers" button to the right will open a worksheet that shows the results of a Dixons's test for outliers.

Groundwater Statistics Tool

Trend test results for datasets with nonparametrically distributed residuals

i	t (Date)	C (ug/L)	C Predicted	Residual	Upper Confidence Band
1	12/16/2015	0.559	0.008	0.551	0.879
2	12/9/2016	0.824	0.412	0.412	1.19
3	6/28/2017	0.756	0.639	0.117	1.37
4	12/14/2017	1.38	0.829	0.551	1.51
5	6/27/2018	0.661	1.05	-0.389	1.71
6	12/19/2018	0.119	1.25	-1.131	1.91
7	6/20/2019	0.614	1.45	-0.836	2.15
8	12/13/2019	2.41	1.65	0.76	2.41
9	6/10/2020	3.25	1.85	1.4	2.68
10	12/3/2020	1.65	2.05	-0.4	2.99
11	6/8/2021	2.78	2.26	0.52	3.38
12	12/2/2021	2.08	2.46	-0.38	3.75
13	6/22/2022	2.26	2.69	-0.43	4.15
14	11/29/2022	2.79	2.87	-0.08	4.46
15	8/31/2023	15.8	3.18	12.62	5.17
16					
17					
18					
19					
20					

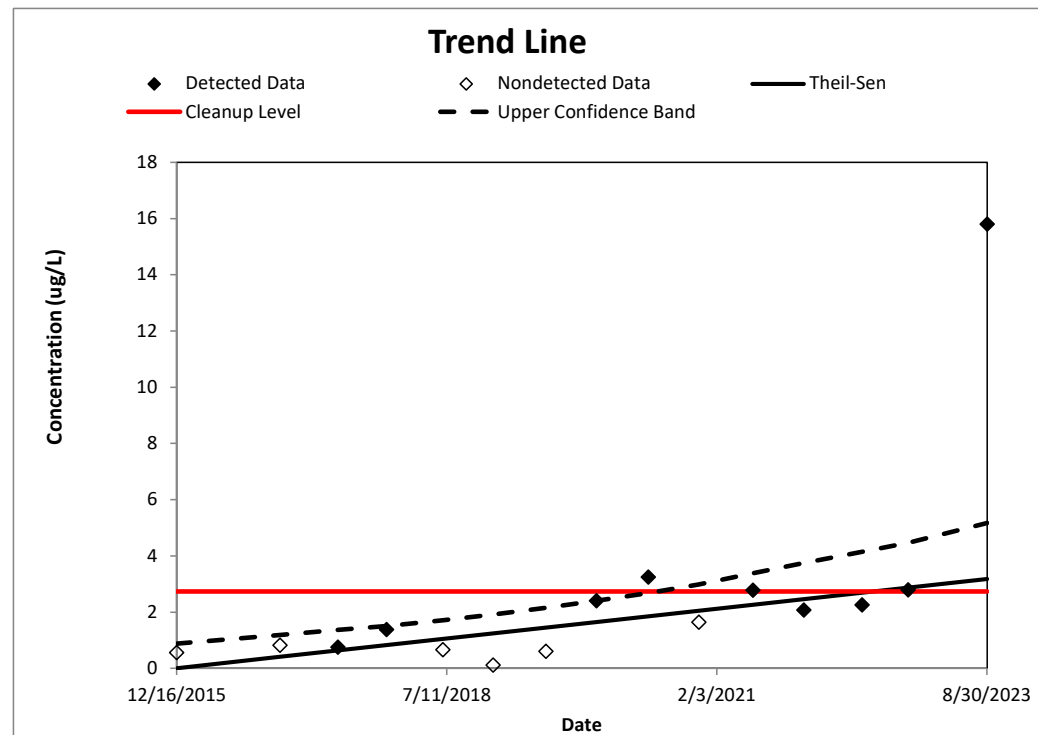
Mann-Kendall	
Test result	Increasing
Test statistic (S)	59
Normalized S	2.870
Critical value	1.645
Trend type	Nonparametric

Theil-Sen	
Slope	0.00113
Intercept	-47.7
When concentration is predicted to achieve the cleanup level	NA
When concentration is predicted to exceed the cleanup level	NA

Select Axis Values and press "Reset Axes" to see future trends.

Axis Values			
Time		Concentration	
Min	Max	Min	Max
AUTO	AUTO	AUTO	AUTO

Reset Axes



Previous Step: Normality Screen

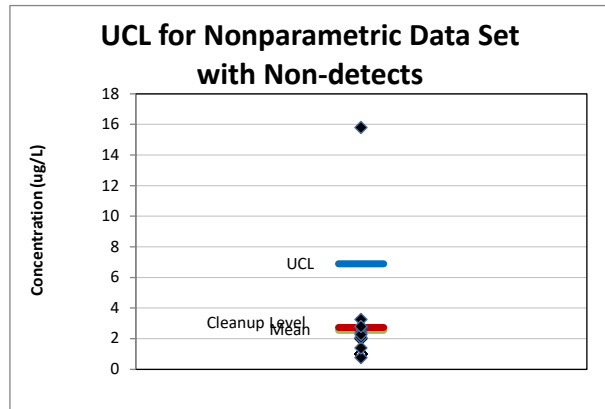
Next Step: UCL S

Groundwater Statistics Tool

UCL calculations data sets with non-detects

Confidence Level	95%
Cleanup level	2.74
Source of cleanup level	MCL
Number of results	15
Number of detected results	9
Number of non-detected results	6
Detection frequency	60%
Number at or below cleanup level	11
Are any potential outliers present?	Yes
Distribution type	Nonparametric
Method for calculating UCL	KM Chebyshev UCL

Mean of concentration	2.54
Standard deviation of concentration	3.65
95% Upper Confidence Limit (UCL)	6.9
Is the 95% UCL greater than the cleanup level?	Yes



Data, including imputed values

Date (Date)	(Dissolved) Conc. (ug/L)	Data Qualifier	Imputed value*
12/16/2015	1	U	0.559
12/9/2016	1	U	0.824
6/28/2017	0.756		0.756
12/14/2017	1.38		1.38
6/27/2018	1	U	0.661
12/19/2018	1	U	0.119
6/20/2019	1	U	0.614
12/13/2019	2.41		2.41
6/10/2020	3.25		3.25
12/3/2020	2	U	1.65
6/8/2021	2.78		2.78
12/2/2021	2.08		2.08
6/22/2022	2.26		2.26
11/29/2022	2.79		2.79
8/31/2023	15.8		15.8
* Note that the imputed value column also includes the actual value for detected samples. This is for convenience in copying and pasting the data.			
Random Seed Used		62311.42188	

Restart: Data Input Screen

Previous Step: Trend Screen

Next Step: Site & Summary Statistics

Groundwater Statistics Tool

Site & Summary Statistics for Nonparametric Data Sets with Non-detects and Nonparametric Residuals

General Information

Analyst	SR
Date of Evaluation	12/14/2023
Site Name	Gunderson
Operable Unit	Area
Type of Evaluation	Attainment
Well Name/Number	MW-74
Chemical of Concern	Copper (Dissolved)
Concentration Units	ug/L
Cleanup Level	2.74
Source of Cleanup Level	MCL
Confidence Level	95%
Risk of False Outlier Rejection	1%
Number of Results	15
Outliers present?	Yes
Number of Non-Detects	6

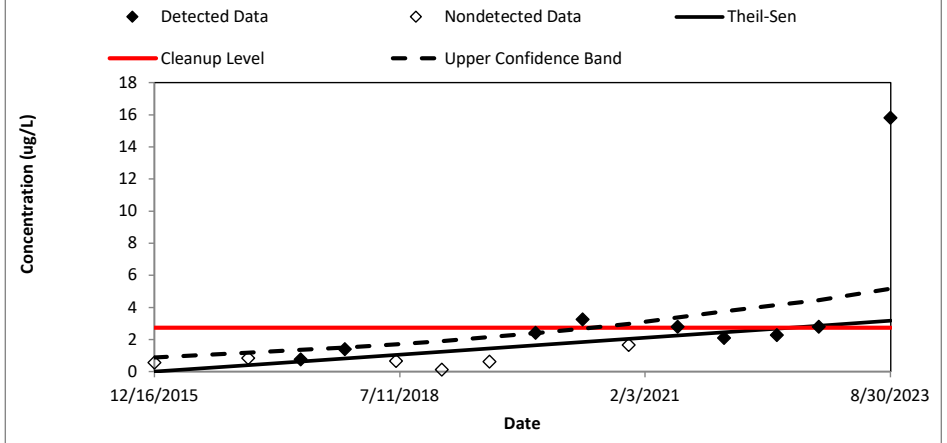
Trend Analysis

Trend Type	Nonparametric
Method	Theil-Sen Line, Mann-Kendall Test
Is the Upper Confidence Band above the cleanup level?	NA
Slope	0.00113
Intercept	-47.7
Test Result	Increasing
When concentration is predicted to achieve the cleanup level	NA
When concentration is predicted to exceed the cleanup level	NA

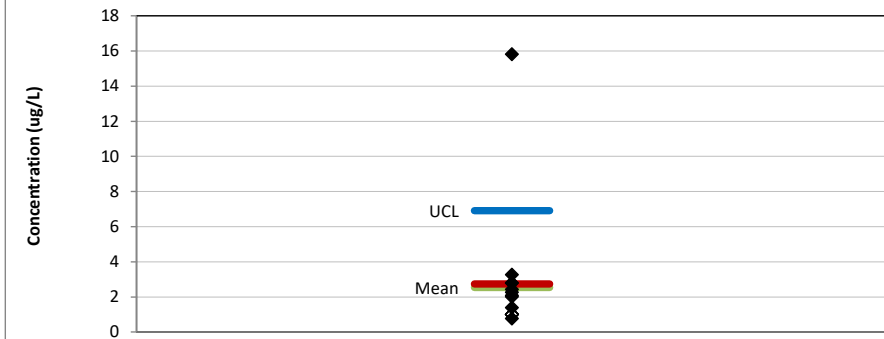
UCL Analysis

Distribution Type	Nonparametric
Test	KM Chebyshev UCL
Mean	2.54
95% UCL	6.9
Is the 95% UCL greater than the cleanup level?	Yes

Trend Line



UCL for Nonparametric Data Set With Non-detects



Previous Step: Trend Screen

Previous Step: UCL Screen

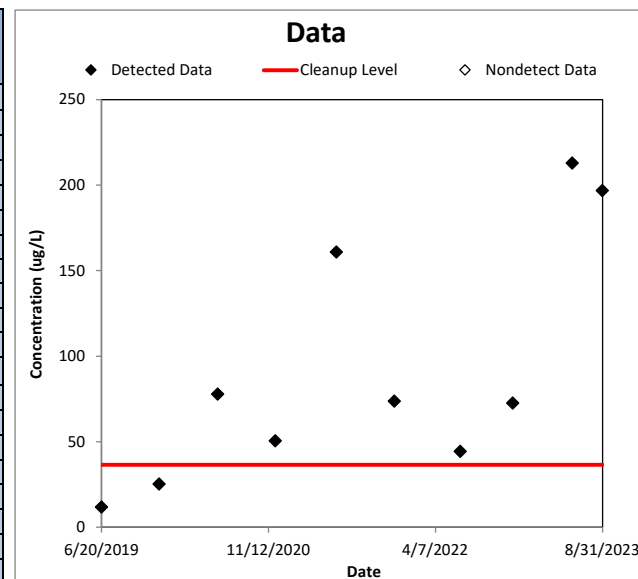
Restart: Data Input Screen

WELL MW-74

Dissolved Zinc

Data input worksheet

Number of data points:	10
Number of detected results:	10
Number of nondetect results:	0
Detection frequency:	100%

[illegible]

Data Review		Recommendations
Are all necessary data fields entered, and in proper format?	Yes	None
Are at least 4 data points present for statistical analysis?	Yes	None
Are at least 8 data points present for an attainment evaluation?	Yes	None
Are detection limits for nondetects $\leq$ maximum detected value?	Yes	None
Are all data within chart axis limits?	Yes	None

Select Axis Values and Press "Reset Axes" after entering data.

Axis Values			
Time		Concentration	
Min	Max	Min	Max
Auto	Auto	Auto	Auto

Pressing the "Check for Outliers" button to the right will open a worksheet that shows the results of a Dixon's test for outliers.

Groundwater Statistics Tool

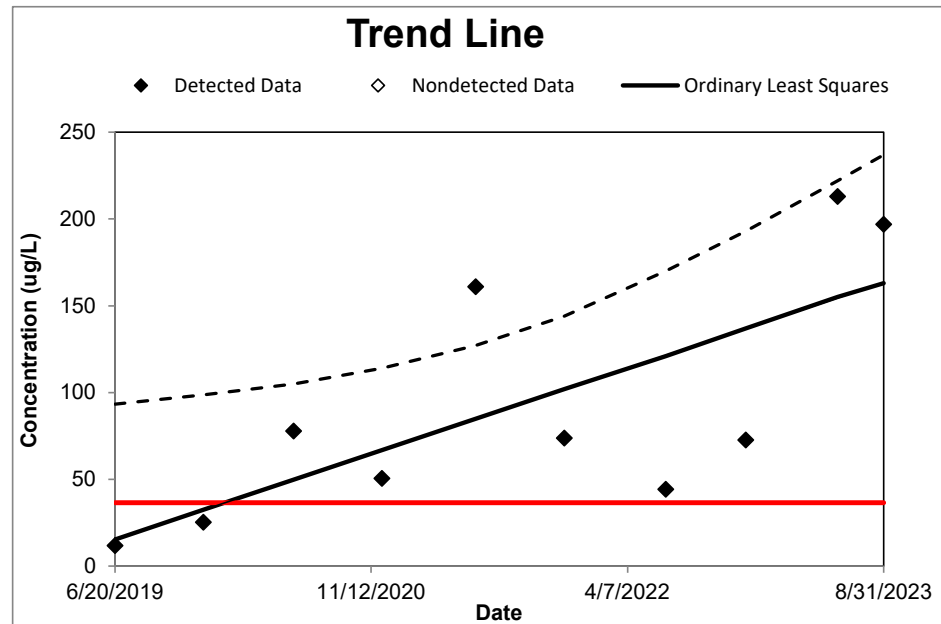
Trend test results for datasets with normally distributed residuals

i	t (Date)	C (ug/L)	C Predicted	Fit residual	Upper Confidence Band
1	6/20/2019	11.8	15.4	-3.6	93.4
2	12/13/2019	25.3	32.4	-7.1	98.6
3	6/10/2020	77.9	49.8	28.1	105
4	12/3/2020	50.5	66.8	-16.3	114
5	6/8/2021	161	84.8	76.2	127
6	12/2/2021	73.8	102	-28.2	144
7	6/22/2022	44.3	121	-76.7	170
8	11/29/2022	72.7	137	-64.3	193
9	5/31/2023	213	155	58	222
10	8/31/2023	197	163	34	237
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Select Axis Values and press "Reset Axes" to see future trends.

Axis Values			
Time		Concentration	
Min	Max	Min	Max
AUTO	AUTO	AUTO	AUTO
Reset Axes			

Ordinary Least Squares	
Slope	0.0966
Intercept	-4200
R ²	0.5169
Test result	Increasing
Test statistic	2.925
Critical value	1.860
Trend type	Normal
When concentration is predicted to achieve the cleanup level	NA
When concentration is predicted to exceed the cleanup level	NA



Previous Step: Normality Screen

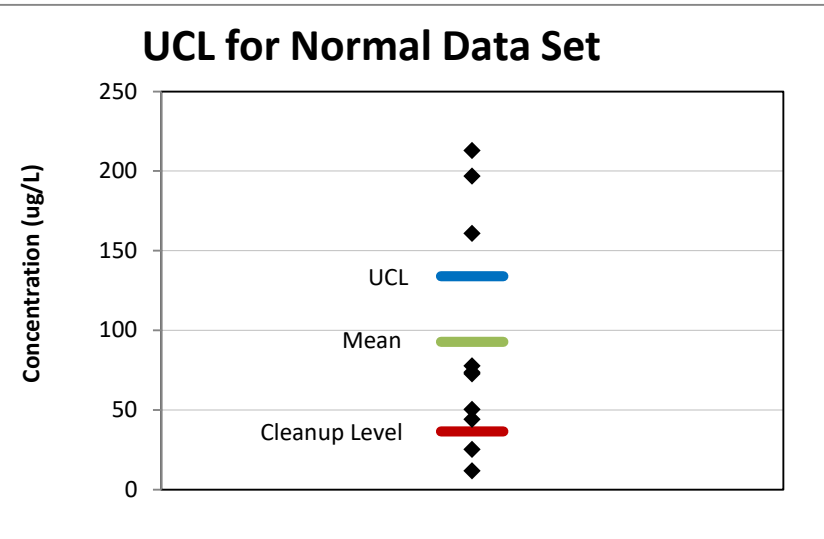
Next Step: UCL Screen

Groundwater Statistics Tool

UCL calculations for normal data sets

Confidence Level	95%
Cleanup level	36.5
Source of cleanup level	MCL
Number of results	10
Number < cleanup level	2
Number of non-detects present	0
Are any potential outliers present?	No
Distribution Type	Normal
Method for calculating UCL	Student's t UCL

Mean of concentration	92.7
Standard deviation of concentration	71.6
t-value for UCL calculation	1.833
95% Upper Confidence Limit (UCL)	134
Is the 95% UCL greater than the cleanup level?	Yes



Restart: Data Input Screen

Previous Step: Trend Screen

Next Step: Site & Summary Statistics

Groundwater Statistics Tool

Site & Summary Statistics for Normal Data Sets with Normal Residuals

General Information

Analyst	SR
Date of Evaluation	12/14/2023
Site Name	Gunderson
Operable Unit	Area
Type of Evaluation	Attainment
Well Name/Number	MW-74
Chemical of Concern	Zinc (dissolved)
Concentration Units	ug/L
Cleanup Level	36.5
Source of Cleanup Level	MCL
Confidence Level	95%
Risk of False Outlier Rejection	1%
Number of Results	10
Outliers present?	No
Number of Non-Detects	0

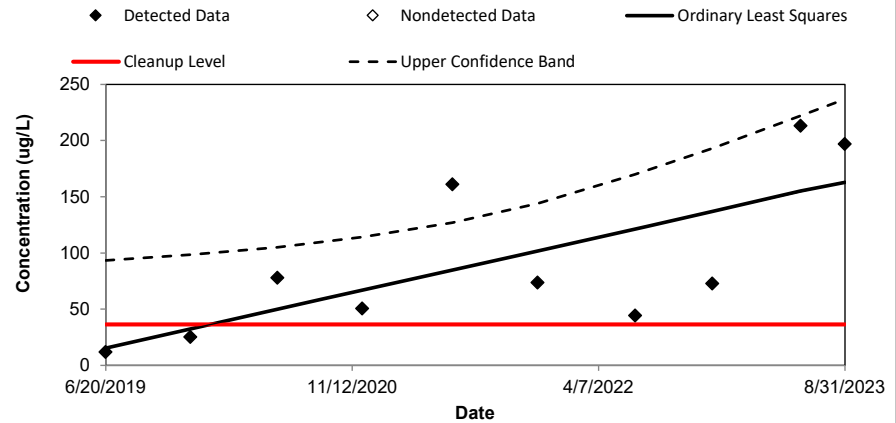
Trend Analysis

Trend Type	Normal
Method	Ordinary Least Squares
Is the Upper Confidence Band above the cleanup level?	NA
Slope	0.0966
Intercept	-4200
R ²	0.5169
Test Result	Increasing
When concentration is predicted to achieve the cleanup level	NA
When concentration is predicted to exceed the cleanup level	NA

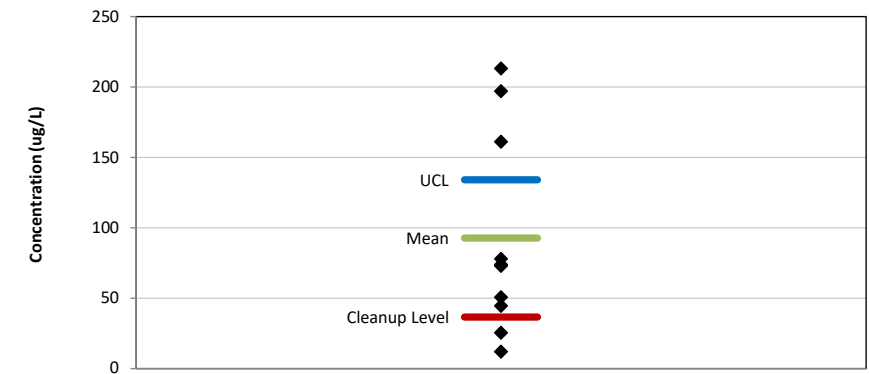
UCL Analysis

Distribution Type	Normal
Test	Student's t UCL
Mean	92.7
95% UCL	134
Is the 95% UCL greater than the cleanup level?	Yes

Trend Line



UCL for Normal Data Set



Previous Step: Trend Screen

Previous Step: UCL Screen

Restart: Data Input Screen

WELL MW-82

Dissolved Antimony

Groundwater Statistics Tool

Data input worksheet

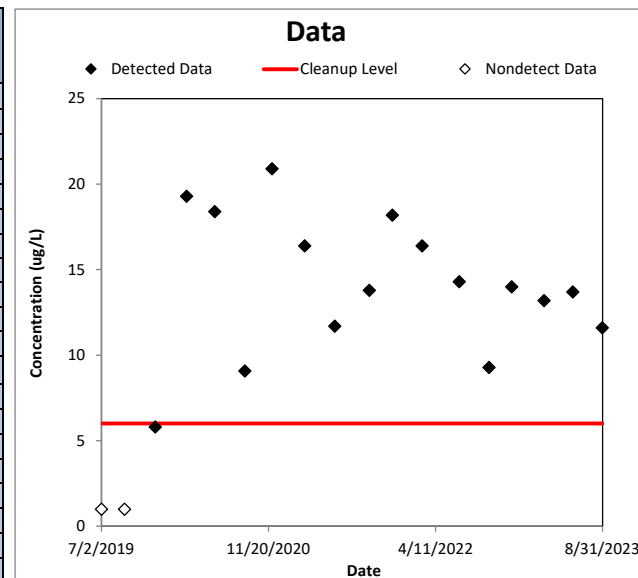
Site Name	Gunderson
Operable Unit (OU)	Area
Type of Evaluation	Attainment
Date of Evaluation	12/4/2023
Person performing analysis	SR

Chemical of Concern	Antimony (dissolved)
Well Name/Number	MW-82
Date Units	Date
Concentration Units	ug/L

Confidence Level Desired	95%
Cleanup Level	6
Source of cleanup level (e.g. MCL or risk-based concentration)	MCL
Risk of False Outlier Rejection	1%
Random Seed (may be left blank)	62311.42188
Significant figures to use	3

Number of data points:	18
Number of detected results:	16
Number of nondetect results:	2
Detection frequency:	89%

Date (Date)	(dissolved) Conc. (ug/L)	Data Qualifier	Detected? (Yes or No)
7/2/2019	1	u	No
9/10/2019	1	u	No
12/12/2019	5.81		Yes
3/17/2020	19.3		Yes
6/10/2020	18.4		Yes
9/9/2020	9.08		Yes
12/1/2020	20.9		Yes
3/10/2021	16.4		Yes
6/9/2021	11.7		Yes
9/22/2021	13.8		Yes
12/1/2021	18.2		Yes
3/2/2022	16.4		Yes
6/22/2022	14.3		Yes
9/21/2022	9-Jan		Yes
11/29/2022	14		Yes
3/7/2023	13.2		Yes
6/2/2023	13.7		Yes
8/31/2023	11.6		Yes



Data Review		Recommendations
Are all necessary data fields entered, and in proper format?	Yes	None
Are at least 4 data points present for statistical analysis?	Yes	None
Are at least 8 data points present for an attainment evaluation?	Yes	None
Are detection limits for nondetects ≤ maximum detected value?	Yes	None
Are all data within chart axis limits?	Yes	None
Select Axis Values and Press "Reset Axes" after entering data.		

Axis Values			
Time		Concentration	
Min	Max	Min	Max
Auto	Auto	Auto	Auto

Pressing the "Check for Outliers" button to the right will open a worksheet that shows the results of a Dixons's test for outliers.

Groundwater Statistics Tool

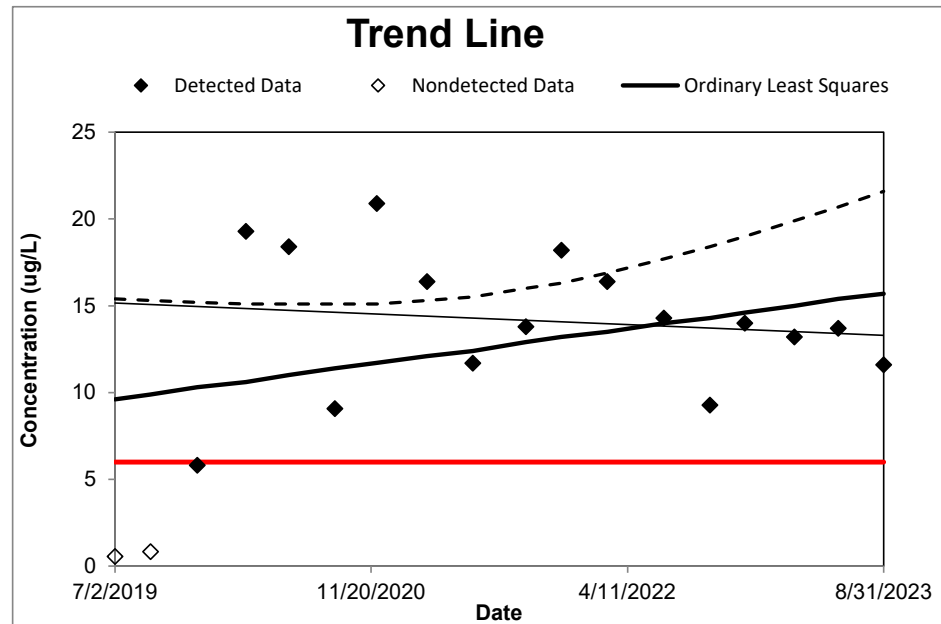
Trend test results for datasets with normally distributed residuals

i	t (Date)	C (ug/L)	C Predicted	Fit residual	Upper Confidence Band
1	7/2/2019	0.559	9.61	-9.051	15.4
2	9/10/2019	0.824	9.89	-9.066	15.3
3	12/12/2019	5.81	10.3	-4.49	15.2
4	3/17/2020	19.3	10.6	8.7	15.1
5	6/10/2020	18.4	11	7.4	15.1
6	9/9/2020	9.08	11.4	-2.32	15.1
7	12/1/2020	20.9	11.7	9.2	15.1
8	3/10/2021	16.4	12.1	4.3	15.3
9	6/9/2021	11.7	12.4	-0.7	15.5
10	9/22/2021	13.8	12.9	0.9	16
11	12/1/2021	18.2	13.2	5	16.3
12	3/2/2022	16.4	13.5	2.9	16.9
13	6/22/2022	14.3	14	0.3	17.7
14	9/21/2022	9.28	14.3	-5.02	18.4
15	11/29/2022	14	14.6	-0.6	19
16	3/7/2023	13.2	15	-1.8	19.9
17	6/2/2023	13.7	15.4	-1.7	20.7
18	8/31/2023	11.6	15.7	-4.1	21.6
19					
20					

Select Axis Values and press "Reset Axes" to see future trends.

Axis Values			
Time		Concentration	
Min	Max	Min	Max
AUTO	AUTO	AUTO	AUTO
Reset Axes			

Ordinary Least Squares	
Slope	0.00402
Intercept	-166
R ²	0.0167
Test result	No trend
Test statistic	1.422
Critical value	1.746
Trend type	Normal
When concentration is predicted to achieve the cleanup level	NA
When concentration is predicted to exceed the cleanup level	NA



Previous Step: Normality Screen

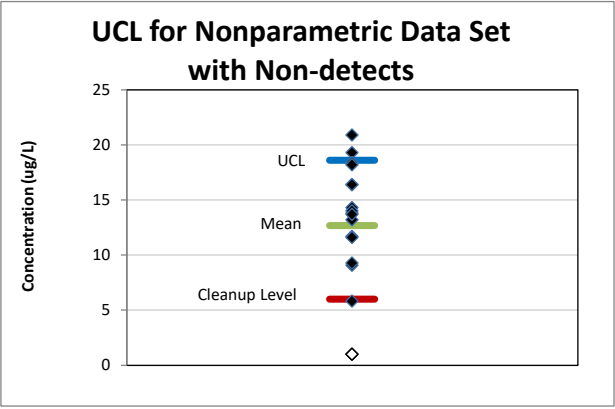
Next Step: UCL Screen

Groundwater Statistics Tool

UCL calculations data sets with non-detects

Confidence Level	95%
Cleanup level	6
Source of cleanup level	MCL
Number of results	18
Number of detected results	16
Number of non-detected results	2
Detection frequency	89%
Number at or below cleanup level	3
Are any potential outliers present?	No
Distribution type	Nonparametric
Method for calculating UCL	KM Chebyshev UCL

Mean of concentration	12.7
Standard deviation of concentration	5.56
95% Upper Confidence Limit (UCL)	18.6
Is the 95% UCL greater than the cleanup level?	Yes



Data, including imputed values

Date (Date)	(dissolved) Conc. (ug/L)	Data Qualifier	Imputed value*
7/2/2019	1	u	0.559
9/10/2019	1	u	0.824
12/12/2019	5.81		5.81
3/17/2020	19.3		19.3
6/10/2020	18.4		18.4
9/9/2020	9.08		9.08
12/1/2020	20.9		20.9
3/10/2021	16.4		16.4
6/9/2021	11.7		11.7
9/22/2021	13.8		13.8
12/1/2021	18.2		18.2
3/2/2022	16.4		16.4
6/22/2022	14.3		14.3
9/21/2022	9.28		9.28
11/29/2022	14		14

Restart: Data Input Screen

Previous Step: Trend Screen

Next Step: Site & Summary Statistics

value for detected samples. This is for convenience in copying and pasting the data.

Random Seed Used

62311.42188

Groundwater Statistics Tool

Site & Summary Statistics for Nonparametric Data Sets with Non-detects and Normal Residuals

General Information

Analyst	SR
Date of Evaluation	12/4/2023
Site Name	Gunderson
Operable Unit	Area
Type of Evaluation	Attainment
Well Name/Number	MW-82
Chemical of Concern	Antimony (dissolved)
Concentration Units	ug/L
Cleanup Level	6
Source of Cleanup Level	MCL
Confidence Level	95%
Risk of False Outlier Rejection	1%
Number of Results	18
Outliers present?	No
Number of Non-Detects	2

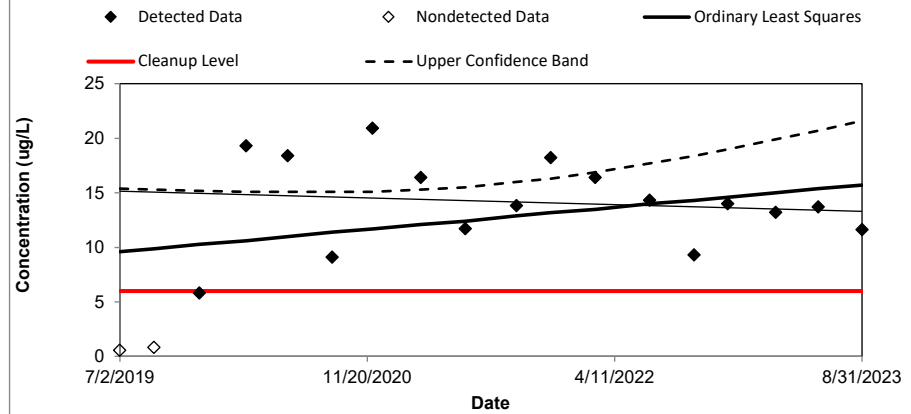
Trend Analysis

Trend Type	Normal
Method	Ordinary Least Squares
Is the Upper Confidence Band above the cleanup level?	NA
Slope	0.00402
Intercept	-166
R ²	0.0167
Test Result	No trend
When concentration is predicted to achieve the cleanup level	NA
When concentration is predicted to exceed the cleanup level	NA

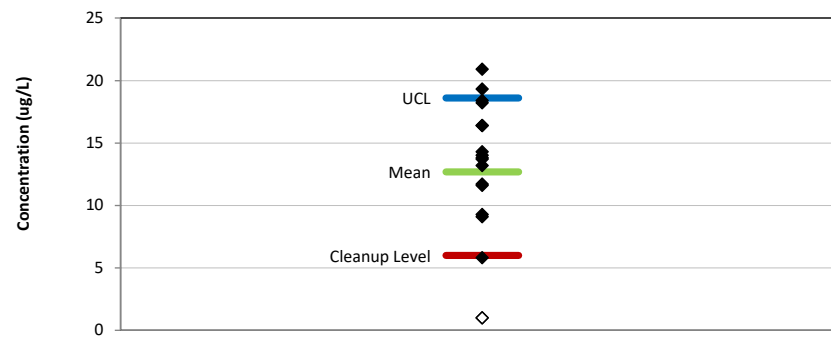
UCL Analysis

Distribution Type	Nonparametric
Test	KM Chebyshev UCL
Mean	12.7
95% UCL	18.6
Is the 95% UCL greater than the cleanup level?	Yes

Trend Line



UCL for Nonparametric Data Set With Non-detects



Previous Step: Trend Screen

Previous Step: UCL Screen

Restart: Data Input Screen

WELL MW-82

Dissolved Zinc

Groundwater Statistics Tool

Data input worksheet

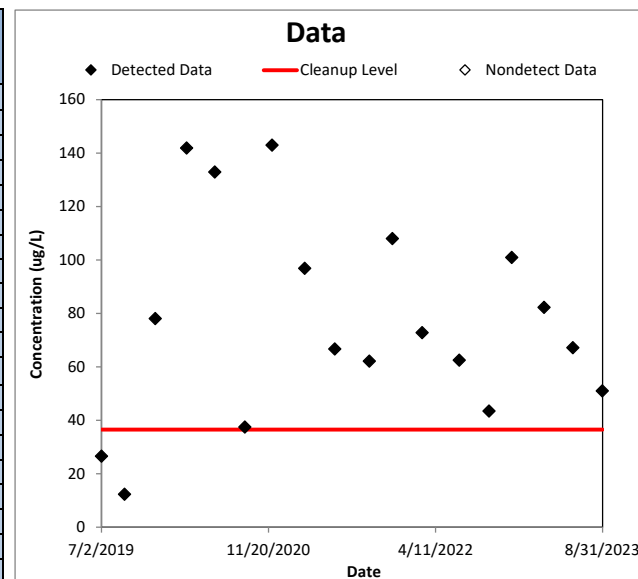
Site Name	Gunderson
Operable Unit (OU)	Area
Type of Evaluation	Attainment
Date of Evaluation	12/4/2023
Person performing analysis	SR

Chemical of Concern	Zinc (dissolved)
Well Name/Number	MW-82
Date Units	Date
Concentration Units	ug/L

Confidence Level Desired	95%
Cleanup Level	36.5
Source of cleanup level (e.g. MCL or risk-based concentration)	MCL
Risk of False Outlier Rejection	1%
Random Seed (may be left blank)	62311.42188
Significant figures to use	3

Number of data points:	18
Number of detected results:	18
Number of nondetect results:	0
Detection frequency:	100%

Date (Date)	Zinc (dissolved) Conc. (ug/L)	Data Qualifier	Detected? (Yes or No)
7/2/2019	26.6		Yes
9/10/2019	12.3		Yes
12/12/2019	78.1		Yes
3/17/2020	142		Yes
6/10/2020	133		Yes
9/9/2020	37.5		Yes
12/1/2020	143		Yes
3/10/2021	96.9		Yes
6/9/2021	66.7		Yes
9/22/2021	62.2		Yes
12/1/2021	108		Yes
3/2/2022	72.9		Yes
6/22/2022	62.6		Yes
9/21/2022	43.5		Yes
11/29/2022	101		Yes
3/7/2023	82.3		Yes
6/2/2023	67.2		Yes
8/31/2023	51.1		Yes



Data Review		Recommendations
Are all necessary data fields entered, and in proper format?	Yes	None
Are at least 4 data points present for statistical analysis?	Yes	None
Are at least 8 data points present for an attainment evaluation?	Yes	None
Are detection limits for nondetects ≤ maximum detected value?	Yes	None
Are all data within chart axis limits?	Yes	None
Select Axis Values and Press "Reset Axes" after entering data.		

Axis Values			
Time		Concentration	
Min	Max	Min	Max
Auto	Auto	Auto	Auto

Pressing the "Check for Outliers" button to the right will open a worksheet that shows the results of a Dixons's test for outliers.

Groundwater Statistics Tool

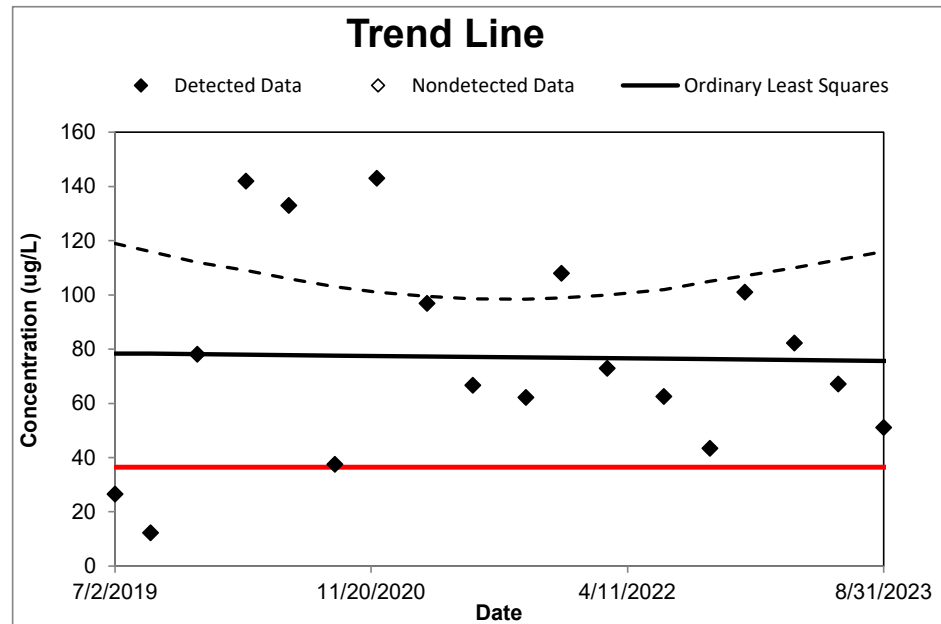
Trend test results for datasets with normally distributed residuals

i	t (Date)	C (ug/L)	C Predicted	Fit residual	Upper Confidence Band
1	7/2/2019	26.6	78.4	-51.8	119
2	9/10/2019	12.3	78.3	-66	116
3	12/12/2019	78.1	78.1	0	112
4	3/17/2020	142	77.9	64.1	109
5	6/10/2020	133	77.8	55.2	106
6	9/9/2020	37.5	77.6	-40.1	103
7	12/1/2020	143	77.5	65.5	101
8	3/10/2021	96.9	77.3	19.6	99.5
9	6/9/2021	66.7	77.1	-10.4	98.5
10	9/22/2021	62.2	76.9	-14.7	98.4
11	12/1/2021	108	76.8	31.2	98.9
12	3/2/2022	72.9	76.7	-3.8	100
13	6/22/2022	62.6	76.5	-13.9	102
14	9/21/2022	43.5	76.3	-32.8	105
15	11/29/2022	101	76.2	24.8	107
16	3/7/2023	82.3	76	6.3	110
17	6/2/2023	67.2	75.8	-8.6	113
18	8/31/2023	51.1	75.7	-24.6	116
19					
20					

Select Axis Values and press "Reset Axes" to see future trends.

Axis Values			
Time		Concentration	
Min	Max	Min	Max
AUTO	AUTO	AUTO	AUTO
Reset Axes			

Ordinary Least Squares	
Slope	-0.00178
Intercept	156
R ²	0.0005
Test result	No trend
Test statistic	-0.091
Critical value	1.746
Trend type	Normal
When concentration is predicted to achieve the cleanup level	2/9/2084
When concentration is predicted to exceed the cleanup level	NA



Previous Step: Normality Screen

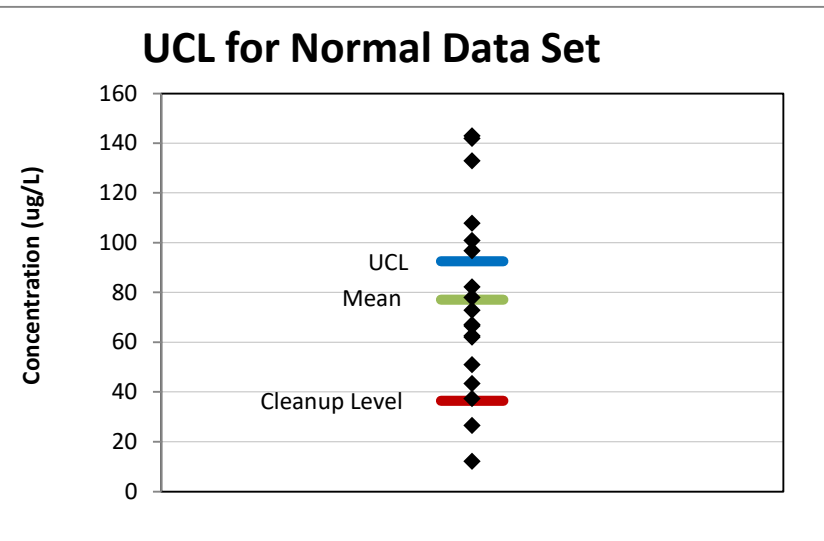
Next Step: UCL Sc

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UCL calculations for normal data sets

Confidence Level	95%
Cleanup level	36.5
Source of cleanup level	MCL
Number of results	18
Number < cleanup level	2
Number of non-detects present	0
Are any potential outliers present?	No
Distribution Type	Normal
Method for calculating UCL	Student's t UCL

Mean of concentration	77.1
Standard deviation of concentration	37.9
t-value for UCL calculation	1.740
95% Upper Confidence Limit (UCL)	92.6
Is the 95% UCL greater than the cleanup level?	Yes



Restart: Data Input Screen

Previous Step: Trend Screen

Next Step: Site & Summary

Groundwater Statistics Tool

Site & Summary Statistics for Normal Data Sets with Normal Residuals

General Information

Analyst	SR
Date of Evaluation	12/4/2023
Site Name	Gunderson
Operable Unit	Area
Type of Evaluation	Attainment
Well Name/Number	MW-82
Chemical of Concern	Zinc (dissolved)
Concentration Units	ug/L
Cleanup Level	36.5
Source of Cleanup Level	MCL
Confidence Level	95%
Risk of False Outlier Rejection	1%
Number of Results	18
Outliers present?	No
Number of Non-Detects	0

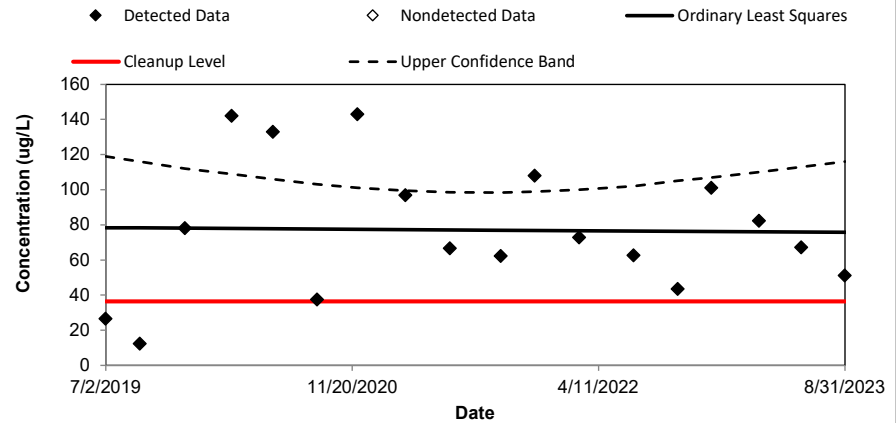
Trend Analysis

Trend Type	Normal
Method	Ordinary Least Squares
Is the Upper Confidence Band above the cleanup level?	NA
Slope	-0.00178
Intercept	156
R ²	0.0005
Test Result	No trend
When concentration is predicted to achieve the cleanup level	2/9/2084
When concentration is predicted to exceed the cleanup level	NA

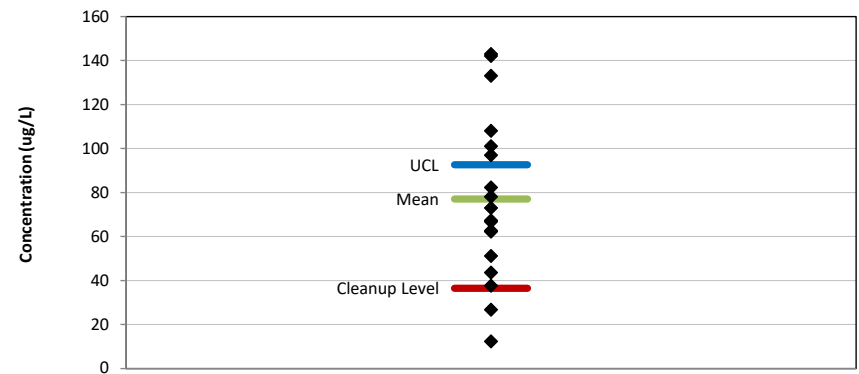
UCL Analysis

Distribution Type	Normal
Test	Student's t UCL
Mean	77.1
95% UCL	92.6
Is the 95% UCL greater than the cleanup level?	Yes

Trend Line



UCL for Normal Data Set



Previous Step: Trend Screen

Previous Step: UCL Screen

