Revised Cleanup Action Plan

View Ridge Plaza
220 Olympic Boulevard
Everett, Washington

October 20, 2020
Terracon Project No. 81197152

Cleanup Site ID 12644
Facility Site ID 20079
VCP Project No. NW3244

Prepared for:
Catalyst Capital Holdings, LLC
Los Angeles, California

Prepared by:
Terracon Consultants, Inc.
Mountlake Terrace, Washington

October 20, 2020

Terracon

Catalyst Capital Holdings, LLC
1800 Avenue of the Stars, Suite 1475
Los Angeles, California 90067

Attn: Mr. Steven Cody
P: (202) 559-6464
E: scody@catalystcap.com

Re: **Revised Cleanup Action Plan**
View Ridge Plaza
220 Olympic Boulevard
Everett, Washington
Terracon Project No.: 81197152
VCP Project No. NW3244

Dear Mr. Cody:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Revised Cleanup Action Plan (CAP) for the above referenced Site. This document supersedes Terracon's previous Draft Cleanup Action report, dated March 18, 2020, for the Site. The services described herein were performed in general accordance with our Proposal No. P81207449, dated October 2, 2020, and email authorization to proceed on October 12, 2020.

Terracon appreciates this opportunity to provide environmental services to Catalyst Capitol Holdings, LLC. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

Kyle Bennett, G.I.T.
Staff Geologist

Matt Wheaton, L.G., P.E.
Principal

Mark White
Principal

TABLE OF CONTENTS

APPENDICES

ACRONYMS AND ABBREVIATIONS

ARARs	Applicable, relevant, and appropriate requirements
ASTM	American Society for Testing and Materials
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CAP	Cleanup Action Plan
COC	Contaminant/Chemical of Concern
CSCSL	Confirmed and Suspected Contaminated Sites List
CSM	Conceptual Site Model
cVOC	Chlorinated volatile organic compound
DCE	1,2-Dichloroethene
Ecology	Washington State Department of Ecology
EMMP	Environmental Media Management Plan
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FS	Feasibility Study
ft/ft	Feet per foot
IDW	Investigation-derived waste
JEM	Johnson and Ettinger simplified model
µg/L	Microgram per liter
µg/L-air	Microgram per liter - air
mg/kg	Milligram per kilogram
MS/MSD	Matrix spike/matrix spike duplicate
MSL	Mean Sea Level
MTCA	Model Toxics Control Act
OSHA	Occupational Health and Safety Administration
PCE	Perchloroethylene (also known as tetrachloroethylene)
PID	Photoionization detector
POC	Point of compliance
ppm	Parts per million
PVC	Polyvinyl chloride

QA/QC	Quality assurance/quality control
RAO	Remedial Action Objective
RCW	Revised Code of Washington
RECs	Recognized Environmental Conditions
RRIFS	Revised Remedial Investigation and Feasibility Study
TCE	Trichloroethylene
TEE	Terrestrial Ecological Evaluation
TOC	Top of casing
TPH	Total petroleum hydrocarbons
UIC	Underground injection control
VC	Vinyl chloride
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound
VISL	Vapor Intrusion Screening Level
WAC	Washington State Administrative Code

EXECUTIVE SUMMARY

Terracon has prepared this Cleanup Action Plan (CAP) for the approximately 1.89-acre Site located at 220 Olympic Boulevard, Everett, Washington (Snohomish County Parcel No. 00606200004102). The Site is currently developed with three structures (the View Ridge Plaza main retail center, a fruit stand, and a coffee kiosk) and an asphalt-paved parking area. The View Ridge Plaza building structure is an approximately 22,000 square foot, single-story, slab-on-grade structure. The property was sold in 2016 by the Everett Masonic Cooperation to the Market Place LLC, the current Property owner. Catalyst Capital Holdings, LLC., is under contract to purchase the partially-vacant Property and is planning to demolish the existing View Ridge Plaza and redevelop the Site with an approximate 22,000-square foot, slab on-grade, multi-story, commercial building.

The View Ridge Plaza building is mostly vacant and was previously occupied with various commercial retail businesses, including a dry cleaner, restaurant, barber shop, masonic conference hall/lodge, and office spaces. The tenant spaces adjacent to the former dry cleaner space are currently unoccupied. The only tenant spaces currently occupied are the Insurance Agency and the former Head Start tenant space which is used periodically and only for storage. The dry cleaner operated on the western portion of the Site in the southwest portion of the View Ridge Plaza building, from 1960 to 2014. Anecdotal information suggested a spill of tetrachloroethylene (also known as perchloroethylene [PCE]), commonly used as a dry-cleaning fluid, reportedly occurred at the dry cleaner around 1978. Various environmental investigations were conducted in association with the former dry-cleaning facility between October 2013 and June 2018. The investigations included soil, groundwater, soil vapor, and indoor air sampling. Multiple Chlorinated Volatile Organic Compounds (cVOCs) were detected in the soil, groundwater, soil vapor, and indoor air samples at concentrations above the Washington State Model Toxics Control Act (MTCA) Method A, Method B cleanup levels (CUL), and/or screening levels; specifically, PCE and various PCE breakdown products, such as trichloroethylene (TCE), cis-1,2-dicholorethylene (cDCE), trans-1,2-dicholorethylene (tDCE), vinyl chloride (VC), 1,1-dicholorethylene (1,1-DCE), and chloroform.

Subsequently, the Site was then listed in the Washington Department of Ecology (Ecology) Confirmed and Suspected Contaminated Sites List (CSCSL) database in June 2014 (Cleanup Site ID 12644, Facility Site ID 20079), listed as View Ridge Plaza/Everett Masonic Corporation located at 220 Olympic Boulevard, Everett, Washington.

Following the investigations and sampling previously completed at the Site, data gaps in contaminant distribution remained for both soil and groundwater. Based on the previous investigations, Terracon prepared and subsequently implemented two supplemental subsurface investigations (April 2019 and June 2019) at the Site as a part of a Remedial Investigation (RI). The April 2019 and June 2019 investigations included the installation of a total of seven

groundwater monitoring wells to assess the extent of cVOCs in soil and groundwater at the Site. The June 2019 investigation also identified the location of the culvert and off-Site sewers and collected upgradient and downgradient water samples from the Dogwood Elm Creek culvert to assess potential creek impacts.

Based on Terracon's April 2019 and June 2019 investigations, cVOCs concentrations in soil and groundwater samples collected from the newly installed monitoring wells (MW-4 through MW-10) did not exceed MTCA Method A cleanup levels. Furthermore, sampling in upgradient and downgradient locations from the Dogwood Elm Creek culvert did not identify detectable concentrations of cVOCs.

In general, Terracon encountered fill material consisting of sand and gravel mixed with clay below the pavement. Brown silt and sand was encountered below the fill followed by tan clay and/or silt to boring termination depths. The clay layer was shallower in the western portion and deeper in the eastern portion of the Site. The sand layer varied in thickness from about 2 feet to 8 feet, with the greater thicknesses present on the eastern portion of the Site.

The following is a summary of findings:

- cVOCs are contaminants of concern (COCs) in soil and groundwater in the western portion of the Site in proximity to the former dry cleaner space.
- MTCA Method A soil and groundwater cleanup levels have been selected for this project Site. Where a MTCA Method A cleanup level has not been established for a compound, the MTCA Method B cleanup level will be used.
- The point of compliance (POC) for soil contamination beneath the Site is approximately 15 feet below ground surface (bgs). The POC for groundwater throughout the Site consists of the uppermost level of the saturated zone extending vertically to the lowest most depth that could potentially be affected by the COCs [WAC 173-340-720(8)(b)].

Following submittal and review of the October 31, 2019, Revised Remedial Investigation and Feasibility Report (RR/FS), Ecology responded on November 15, 2019, with an opinion email approving and agreeing that impacts at the Site had been fully characterized and that the proposed cleanup action will likely result in a No Further Action (NFA) determination.

Subsequently, Terracon submitted a Cleanup Action Plan (CAP), dated March 18, 2020, for the Site to Ecology for review. Terracon also requested an NFA likely opinion for the Site, based on implementation of the CAP. On June 11, 2020, Ecology emailed an NFA likely opinion and approval for the Site upon completion of the proposed CAP

The current remedial action, as described in Terracon's RRI/FS and CAP approved by Ecology, provided for the complete removal of impacted soils, backfill with a remedial amendment, and

installation of injection wells for future in-situ treatment, as warranted; however, due to the unanticipated high costs associated with the complete removal of impacted soil, that included shoring, dewatering, and costs associated with the disposal of soil impacted with high concentrations of the chlorinated solvents, the approved cleanup has become, in our opinion, disproportionately cost-prohibitive. Given the disproportionate cost compared to the overall project goal, and the logistical challenges associated with the selected earthwork, Terracon is presenting the following cleanup alternative that includes the following components:

- Focused source area remedial excavation and in-situ treatment of cVOC-impacted soil to a maximum depth of 15 feet bgs and/or three feet into groundwater;
- Installation of a post-remedial excavation in-situ remedial system;
- Design and installation of a vapor intrusion mitigation system (VIMS), such as the E-Pro™ vapor barrier or an equivalent product;
- Preparation and implementation of an Environmental Covenant; and,
- Implementation of long term (a minimum of five years) monitoring of select on-Site groundwater monitoring wells.

Based on telephone communication between Terracon and Ecology on September 15, 2020, Ecology agreed that a revised cleanup action plan addressing the change to the proposed remedial action alternative would be appropriate.

At this time, this revised CAP is presented to Ecology with a request for opinion that the selected cleanup action, as detailed within the body of this document, will result in an NFA Likely for the Site.

Revised Cleanup Action Plan

View Ridge Plaza
220 Olympic Boulevard
Everett, Washington

Terracon Project No. 81197152
VCP Project No. NW3244
October 20, 2020

1.0 INTRODUCTION

This document presents the revised Cleanup Action Plan (CAP) for the View Ridge Plaza Site located at 220 Olympic Boulevard in Everett, Washington (herein referred to as the Site). The Site, as defined by Ecology, is the area where contamination has come to be located and can consist of a portion or all of one tax parcel or portions or all of multiple tax parcels, including ROWs. The general location of the Site is shown on Exhibit 1 of Appendix A. A CAP is required as part of the Site cleanup process under Chapter 173-340 of the Washington Administrative Code (WAC), Model Toxics Control Act Cleanup Regulations (MTCA).

Following submittal and review of Terracon's Revised Remedial Investigation and Feasibility Report (RRIFS), dated October 31, 2019, Ecology responded on November 15, 2019, with an opinion email approving and agreeing that the impacts at the Site had been fully characterized and that the proposed cleanup action will likely result in and NFA determination. The current remedial action, as described in Terracon's RRI/FS and CAP approved by Ecology, provided for the complete removal of impacted soils, backfill with a remedial amendment, and installation of injection wells for future in-situ treatment, as warranted; however, due to the unanticipated high costs associated with the complete removal of impacted soil, that included shoring, dewatering, and costs associated with the disposal of soil impacted with high concentrations of the chlorinated solvents, the approved cleanup has become, in our opinion, disproportionately cost-prohibitive. Given the disproportionate cost compared to the overall project goal, and the logistical challenges associated with the selected earthwork, Terracon is presenting the following cleanup alternative that includes the following components:

- Focused source area remedial excavation and in-situ treatment of cVOC-impacted soil to a maximum depth of 15 feet bgs and/or three feet into groundwater;
- Installation of a post-remedial excavation in-situ remedial system;
- Design and installation of a vapor intrusion mitigation system (VIMS), such as the E-Pro vapor barrier or an equivalent product;
- Preparation and implementation of an Environmental Covenant; and,
- Implementation of long term (a minimum of five years) monitoring of select on-Site groundwater monitoring wells.

As detailed in Terracon's July 21, 2020 proposal to our Client, a pre-remedial excavation subsurface investigation was proposed in an effort to more accurately quantify and verify the approximate volume of cVOC-impacted soil. Terracon proposes that this investigation be completed as a part of this remedial alternative and after the Site building has been partially demolished, which will more readily allow site investigation of the source area.

Based on telephone communication between Terracon and Ecology on September 15, 2020, Ecology agreed that a revised cleanup action plan addressing the change to the proposed remedial action alternative would be appropriate. This document supersedes Terracon's previous Draft Cleanup Action report, dated March 18, 2020, for the Site.

The scope associated with the revised cleanup action design, observations, oversight, monitoring and reporting are provided herein.

1.1 Purpose

The purpose of the CAP is to describe the remedial alternative that will be implemented at the Site, to comply with the requirements for selection of a remedy under WAC 173-340-360, and achieve regulatory closure. The objective of the remedial alternative is to obtain a written determination issued by the Washington State Department Ecology (Ecology) that no further action is necessary at the Site. A Cleanup Action Report will be prepared after the cleanup action has been completed. The CAP addresses the remediation of the chemicals of concern (COCs) present in soil and groundwater beneath the Site and includes the steps required for implementation.

1.2 Current Site Use

The Site consists of a 1.89-acre property in Everett, Snohomish County, Washington, which is comprised of Snohomish County tax parcel 00606200004102. The Site is developed with three structures (the main retail center, a produce market, and a coffee kiosk) and an asphalt-paved parking area. The View Ridge Plaza building structure is an approximately 22,000 square foot, single-story, slab-on-grade structure. The tenant spaces adjacent to the former dry cleaner space are currently unoccupied. The only tenant spaces currently occupied are the Insurance Agency and the former Head Start tenant space which is used periodically and only for storage. The Site, as defined by Ecology, is the area where contamination has come to be located and can consist of a portion or all of one tax parcel or portions or all of multiple tax parcels, including ROWs. The Site elevation ranges from approximately 310 to 290 feet above mean sea level, with an inward slope and a general gradient towards the northeast. A Site Location Map is included as Exhibit 1, an Aerial and Utility Map is included as Exhibit 2, and a Site Diagram is included as Exhibit 3, and a Detailed Site Diagram is included as Exhibit 4 in Appendix A.

The Site is adjoined to the north by residential apartments and single-family residents followed by 45th Street Southwest. The Site is adjoined to the east by Olympic Boulevard followed by South Everett Neighborhood Center, Our Saviors Lutheran Preschool, and single-family residents. The Site is adjoined to the south by a 76-branded fuel station and West Mukilteo Boulevard followed by a Brown Bear Car Wash, a church, single-family residents, and View Ridge Dental Center. Elm Street followed by single-family residents border the Site to the west.

Catalyst Capital Holdings, LLC., is under contract to purchase the partially-vacant property and is planning to demolish the existing View Ridge Plaza and redevelop the Site with an approximate 22,000-square foot, slab on-grade, multi-story, commercial building.

2.0 SITE DESCRIPTION AND BACKGROUND

The following section includes a description of the Site and a summary of previous work performed at the Site. For a detailed description of the geology, hydrology, and the previous investigations of the Site, refer to the RRIFS, dated October 31, 2019, provided under a separate cover.

2.1 Site Geology/Hydrogeology

Site Geology

According to the *Geologic Map of Everett 7.5 Minute Quadrangle, Washington* the area generally consists of glacial till and glacial outwash deposits. The glacial till deposits are mapped along the majority of the Site and consists of non-sorted and non-stratified clay, silt, sand, and gravel with some boulders, and is generally very compact. The advanced glacial outwash deposits are mapped along the southern Site boundary along West Mukilteo Boulevard and consists of unconsolidated sand with pebbles and cobbles. In general, during Terracon's investigations fill material consisting of sand and gravel mixed with clay was encountered below the pavement. Brown silt and sand was encountered below the fill followed by tan clay and/or silt to boring termination depths. The clay layer was shallower in the western portion and deeper in the eastern portion of the Site and varied in thickness from 9 to 25 feet. The sand layer varied in thickness from about 2 feet to 8 feet, with the greater thicknesses present on the eastern portion of the Site. The boring logs attached in Appendix C detail the observed soil stratigraphy.

Site Hydrogeology

Terracon observed the first occurrence of groundwater during drilling at depths from 1 to 10 feet bgs. Static groundwater levels in the groundwater monitoring wells in April and June 2019 ranged from 2.69 feet (MW-4) to 10.00 feet (MW-A) below TOC. Static groundwater levels in the groundwater monitoring wells in July 2020 ranged from 3.04 feet (MW-8) to 10.03 feet (MW-A) below TOC.

Based on depth to water measurements and well survey data, the groundwater elevations at the on- and off-Site groundwater monitoring wells ranged from 292.48 feet above mean seal level (MSL) at MW-3 to 304.25 feet above MSL in monitoring well MW-C.

The Site generally slopes inward, with the lowest point located in the west-northwest portion of the Site. Based on groundwater elevation measurements collected during Terracon's groundwater monitoring events, groundwater flow direction at the Site is generally inward towards the channelized portion of Dogwood Elm Creek and bending to the northeast, the general flow direction of Dogwood Elm Creek.

Groundwater appears to be perched on the silts and clays, which are potentially acting as an aquiclude, and was not observed at deeper intervals below these observed silts and clays to a depth of approximately 45 feet. At MW-7 silts and clay were observed to extend to approximately 26 feet bgs, the well screen interval is from 35 to 45 feet bgs and measurable amounts of groundwater have not been observed in monitoring well MW-7 since its installation.

Groundwater measurements are included in Table 2 of Appendix B. Groundwater flow direction and gradient are depicted on Exhibits 9 through Exhibit 11 of Appendix A.

Site Surface Water
Terracon obtained utility maps from the City of Everett and identified that a portion of Dogwood Elm Creek is channelized through a 24-inch culvert pipe, approximately 12 feet below ground surface, and flows through the Site. The creek flows from the south to the north, flowing from the south-central portion of the Site, underneath the on-Site building and flowing off-Site in the northeast corner of the property where it is discharged from the pipe. On April 25, 2019, a Terracon field representative inspected and confirmed the culvert pipe's location, depth, and size, consistent with the City of Everett's utility maps. The Site utilities are depicted on Exhibit 2 of Appendix A.

2.2 Historical Site Use

According to reports provided by the client, the property was first developed in 1959, and was originally operated as a supermarket and pharmacy. By the 1960s, a laundromat/dry cleaner, eventually replaced by a dry-cleaning only facility, was present in the southwest corner of the View Ridge Plaza building, the main retail center building (main building), and addressed as 220 Olympic Boulevard. Various dry-cleaning operations have reportedly occupied this tenant space from the 1960s until February 2015, when Olympic Cleaners ceased operations and vacated the building along with several other tenants. The property was sold in 2016 by the Everett Masonic Cooperation to the Market Place LLC, the current property owner.

The following section provides a summary of the findings and conclusions of environmental investigations conducted at the Site. The previous investigations are discussed in detail in the reports referenced in Section 2.3 below.

2.3 Summary of Previous Investigations

Based on the historical investigations conducted by Terracon and others at the Site, the Site is characterized with respect to the cVOC-related impacts associated with the historical dry-cleaning operations. Soil and groundwater beneath the Site have been impacted by concentrations of cVOC-related COCs above their respective MTCA Method A Cleanup Levels (CULs) and/or Method B CULs. A summary of soil and groundwater analytical results are included on Exhibit 5 through Exhibit 8 of Appendix A, and Table 1 and Table 2 of Appendix B. In summary, the following COCs and their respective CULs were proposed for the Site:

The selected MTCA CULs for soil and COCs are included below:

- PCE – Method A cleanup level: 0.05 mg/kg
- TCE – Method A cleanup level: 0.03 mg/kg
- cDCE – Method B cleanup level: 160 mg/kg
- VC – Method B cleanup level: 0.67 mg/kg

The selected MTCA CULs for groundwater and COCs are included below:

- PCE – Method A cleanup level: 5 µg/l
- TCE – Method A cleanup level: 5 µg/l
- cDCE – Method B cleanup level: 16 µg/l
- VC – Method A cleanup level: 0.2 µg/l

The cVOCs soil and groundwater impacts are limited to the area in the immediate vicinity of the former dry cleaners located at the southwestern corner of the View Ridge Plaza building in the western portion of the Site. The location of the cVOCs and the limited extent of the cVOCs within the dry cleaner facility indicates that historical operations are the source.

The soil impacts at the Site are areally assessed to the north, east, south, and west with borings MW-1, B-3, SB-7, SB-2, SB-8, SB-5, MW-2, DP-2, SB-3, and DP-1, where COCs were not detected above laboratory MRLs and/or MTCA CULs. The cVOCs impacts to soil do not appear to have migrated off-Site.

The groundwater impacts at the Site are areally assessed to the north, east, south, and west with monitoring wells SB-1, SB-3, SB-6, and MW-2 thru MW-10, where COCs were not detected above laboratory MRLs and/or MTCA CULs. Although groundwater COCs were not detected in these

monitoring wells, it can be assumed that the COCs exceeding MTCA Method A CULs identified in the on-Site monitoring wells along the western Site boundary may have migrated a short distance into the Elm Street ROW; however, further evaluation of these potential impacts was not feasible due to access restrictions. In addition, based on the eastwardly groundwater gradient in the western monitoring wells (MW-4, MW-5, MW-8, and MW-9) and lack of detections of COCs above laboratory MRLs, the isolated impacts appear to be limited to the immediate vicinity of MW-1.

Soil gas and indoor air sampling was conducted to evaluate the soil-to-indoor air pathway. Based on the results of the soil gas and indoor air samples, elevated concentrations of cVOCs above the MTCA Method B cleanup level were detected. However, based on the anticipated Site redevelopment and cleanup action, the soil-to-indoor air pathway will not represent a threat to human health and the environment following the completion of the proposed remedial action. The proposed building will be underlain by a passive vapor mitigation system, designed and constructed to be converted to an active system if warranted, that will include venting and a vapor membrane (e.g., E-PRO Geo-seal, Liquid Boot, etc.).

3.0 CLEANUP STANDARDS

The MTCA CULs are concentrations of hazardous substances that have been determined to be protective of human health and the environment under specific exposure conditions. Applicable CULs under MTCA can be developed using either default Method A tabulated values or using Method B Site-specific, risk-based formulations. Although both Method A and Method B CULs allow for unrestricted land use, Method A CULs are the most conservative and protective of human health and the environment.

For the purposes of this CAP, MTCA Method A CULs (or Method B cleanup levels when Method A CULs are not established) are appropriate for the Site. The COCs and their respective CULs for the Site are included in Section 3.3.

3.1 Applicable Regulations

State and federal laws may be applicable to a cleanup action because of the type of action and/or the location of the Site (WAC 173-340-200). Typically, cleanup actions conducted in accordance with MTCA shall comply with applicable state and federal laws.

Other applicable regulations which may apply to the Site include:

- State Environmental Policy Act (Chapter 43.21C RCW)
- The Clean Water Act (33 United States Code [USC] 1251 et seq.)

- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 USC 9601 et. Seq. and 40 CFR 300)
- Washington State Shoreline Management Act (RCW 90.58 WAC 173-18, 173-22, and 173-27)
- Water Quality Standards for Surface Waters of the State of Washington (RCW 90.48 and 90.54) (WAC 173-201A)
- Snohomish County regulations, codes, and rules

3.2 Development of Cleanup Levels

Cleanup levels for affected media were evaluated in accordance with MTCA requirements and take into consideration exposure pathways and receptors based on current and likely future uses of the Site. As presented in Terracon's October 2019 RRIFS report, the TEE of the subject Site indicates that the Site is excluded under WAC 173-340-7491(1)(a), WAC 173-340-7491(1)(b), and WAC 173-340-7491(1)(d).

Although the Site is zoned and used as a commercial Site, the Site can still use MTCA Method A CULs for soil as prescribed in WAC 173-340-704. Soil CULs for unrestricted land use were developed in accordance with WAC-173-340-740.

The CUL evaluation assesses the potential effectiveness of the selected remedial alternative and the likely ability of the alternative to attain a cleanup standard, with the ultimate objective of attaining an NFA determination from Ecology for the Site.

Because the Site and surrounding area are currently developed for commercial use and will likely remain so for the foreseeable future, only exposure pathways for human receptors were taken into consideration. Under the current and future land uses, the only potential pathway for exposure to on-Site contaminants is direct contact (i.e., dermal, ingestion, and inhalation exposures) with soil and groundwater by a construction worker.

3.3 Cleanup Levels

The selected MTCA CULs for soil and COCs are included below:

- PCE – Method A cleanup level: 0.05 mg/kg
- TCE – Method A cleanup level: 0.03 mg/kg
- cDCE – Method B cleanup level: 160 mg/kg
- VC – Method B cleanup level: 0.67 mg/kg

The selected MTCA CULs for groundwater and COCs are included below:

- PCE – Method A cleanup level: 5 µg/l
- TCE – Method A cleanup level: 5 µg/l
- cDCE – Method B cleanup level: 16 µg/l
- VC – Method A cleanup level: 0.2 µg/l

3.4 Points of Compliance

Points of Compliance for Soil

The point of compliance is the location where the enforcement limits that are set in accordance with WAC 173-200-050 will be measured and cannot be exceeded (WAC 173-200-060). Once the cleanup levels have been attained and/or exposure pathways eliminated at the defined points of compliance, the impacts present beneath the Site will no longer be considered a threat to human health or the environment.

The potential exposure pathways for soil at the Site include direct contact, inhalation of airborne soil, and inhalation of vapors. Currently, the inhalation pathway for vapors may be complete for commercial workers and trespassers at the Site. During remediation activities and redevelopment of the Site, direct contact with soil, inhalation of airborne dust, and vapor inhalation of pathways are potentially complete for commercial workers. After completion of the Site remediation activities and redevelopment, removal of soil to a maximum depth of 15 feet bgs and/or three feet into groundwater, treatment of groundwater with concentrations exceeding MTCA CULs, and installation of a Vapor Intrusion Mitigation System (VIMS) should prevent direct contact and inhalation pathways at the Site for commercial workers and residents/occupants.

The standard POC for soil contamination beneath the Site is approximately 15 feet bgs, which represents a reasonable estimate of the depth that could be accessed during normal Site redevelopment activities (WAC 173-340-740[6][d]). Based on Terracon's proposed cleanup action, soil containing concentrations of COCs above the applicable MTCA cleanup levels in the upper 15 feet will be removed and/or remediated to below applicable cleanup levels, as evidenced by sampling results. Specifically, POCs for soil in the western portion of the Site will be the sidewalls and bottoms of the proposed remedial excavation areas beneath and to west of the former dry cleaner, an area approximately 60 feet wide by 70 feet long and to a maximum depth of 15 feet bgs and/or three feet into groundwater. Please note that the dimensions of the proposed remedial excavation may change based on the results of the pre-remedial excavation site investigation discussed above.

Points of Compliance for Groundwater

In accordance with WAC 173-340-720(8)(a)(b), the point of compliance for groundwater is defined as the uppermost level of the saturated zone extending vertically to the lowest depth that potentially could be impacted by the COCs at the Site. Monitoring wells MW-1 and MW-2 will be

decommissioned as part of the redevelopment of the Site. Groundwater at the Site has been identified between depths of approximately 2 to 20 feet bgs, which is the depth of the groundwater POCs. Groundwater appears to be perched on the silts and clays, which are potentially acting as an aquiclude, and has not been observed at deeper intervals below these observed silts and clays to a depth of approximately 45 feet. The limits of impacted media are assumed to extend just beyond the western property boundary into the Elm Street ROW, beyond the limits of the remedial excavation. However, based on the east migrating groundwater gradient, no detection of COCs in groundwater collected from off-Site monitoring wells, and the proposed remedial amendment and contingency injections; the horizontal point of compliance for the Site is the limits of the remedial excavation.

After the excavation, four new groundwater monitoring wells, MW-1A through MW-4A, will be installed to evaluate groundwater quality after the implementation of the cleanup action. The proposed groundwater monitoring well locations are depicted on Exhibit 12 of Appendix A.

Following installation, Terracon will complete four quarterly groundwater sampling events. All groundwater samples will be analyzed for PCE, TCE, cDCE, and VC. Compliance groundwater monitoring is further detailed in Section 4.3.5.

Points of Compliance for Soil Vapor
Ecology has developed and published guidance to evaluate whether hazardous substances in soil vapor present a risk to human health by intruding into indoor air within structures (Ecology 2019).

Indoor air and ambient air were sampled to determine indoor air quality of the View Ridge Plaza building. Laboratory analytical data demonstrated that cVOCs concentrations exceeded their respective MTCA CULs and/or screening levels. Based on this data, the soil-to-indoor air pathway is complete; however, source removal within the limits of remedial excavation and installation of a VIMS during Site redevelopment will eliminate the exposure pathways, and the impacts present beneath the Site will no longer be considered a threat to human health or the environment. Therefore, it is Terracon's opinion that the vapor pathway will be incomplete.

Following installation of the VIMS, Terracon personnel will complete two performance vapor sampling events. Compliance vapor monitoring is further detailed in Section 4.3.5.

4.0 SELECTED CLEANUP ACTION

This section summarizes the feasible remedial alternatives reviewed during the selection of the cleanup action alternative and outlines the components associated with the selected cleanup action. For a detailed description of the evaluation of remedial alternatives of the Site, refer to Terracon's RRIFS report, provided under a separate cover.

4.1 Evaluation of Feasible Cleanup Alternatives

The current remedial action, as described in Terracon's RRI/FS and CAP approved by Ecology, provided for the complete removal of impacted soils, backfill with a remedial amendment, and installation of injection wells for future in-situ treatment, as warranted; however, as previously mentioned, due to the unanticipated high costs associated with the complete removal of impacted soil, that included shoring, dewatering, and costs associated with the disposal of soil impacted with high concentrations of the chlorinated solvents, the approved cleanup has become, in our opinion, disproportionately cost-prohibitive. Given the disproportionate cost compared to the overall project goal, and the logistical challenges associated with the selected earthwork, Terracon selected the following cleanup alternative that includes the following components:

- Focused source area remedial excavation and in-situ treatment of cVOC-impacted soil to a maximum depth of 15 feet bgs and/or three feet into groundwater;
- Installation of a post-remedial excavation in-situ remedial system;
- Design and installation of a VIMS, such as the E-Pro vapor barrier or an equivalent product;
- Preparation and implementation of an Environmental Covenant; and,
- Implementation of long term (a minimum of five years) monitoring of select on-Site groundwater monitoring wells.

The cleanup alternative presented above passes the minimum requirements for a cleanup action as stipulated in WAC 173-340-360(2). These requirements include both the Threshold Requirements [WAC 173-340-360(2)(a)] and Other Requirements [WAC 173-340-360(2)(b)]. The threshold requirements include:

- Protection of human health and the environment;
- Compliance with cleanup standards;
- Compliance with applicable state and federal laws; and
- Provisions for compliance monitoring.

Other requirements include:

- Use of permanent solutions to the maximum extent practicable;
- Provisions for a reasonable restoration time frame; and,
- Consideration of public concerns.

The selected remedial technologies comply with the above threshold criteria for effectiveness and implementability and meet the RAOs in conjunction with the planned redevelopment of the Site.

In accordance with MTCA, the alternative meets the criteria and sub-criteria specified in WAC 173-340-360(3)(f) and WAC 173-340-360(4), which include the following:

- Protectiveness;
- Permanence;
- Effectiveness over the long-term;
- Management of short-term risks;
- Technical and administrative implementability;
- Consideration of public concerns;
- Restoration time frame; and,
- Cost.

Additional detail pertaining to the components of the selected cleanup are further detailed in Section 4.3.

4.2 Selected Cleanup Action Description

The selected cleanup action alternative consists of a focused source area remedial excavation and in-situ treatment of cVOCs-impacted soil to a maximum depth of 15 feet bgs and/or three feet into groundwater; installation of a post- remedial excavation in-situ remedial system; design and installation of a VIMS; preparation and implementation of an Environmental Covenant; and, installation and long-term monitoring of on-Site groundwater monitoring wells.

If residual groundwater COC concentrations increase or remain above MCTA CULs after the remedial excavation, a contingency in-situ chemical injection treatment may be required to increase biodegradation of residual groundwater impacts. The general scope of the cleanup action is further detailed below.

4.3 Cleanup Action Implementation Plan

This section provides a description of the cleanup action components that will be implemented to, eliminate exposure pathways to impacted media beneath the Site containing concentrations of COCs exceeding CULs, and the appropriate steps to obtain regulatory Site closure.

4.3.1 Focused Remedial Excavation and In-Situ Treatment

This alternative would involve a focused remedial excavation of the impacted soil in the contaminated source area to a maximum depth of 15 feet bgs and/or three feet into groundwater and off-Site disposal of soils containing concentrations of COCs exceeding the MTCA Method A cleanup levels, followed by a remedial amendment backfill and installation of horizontal slotted

pipes for future injections. As shown on Exhibits 5, 6, and 7, the existing soil analytical results depict the estimated areas of the Site where COCs for soil are present.

Groundwater Monitoring Well Decommissioning

Attempting to save each monitoring well during the redevelopment excavation and construction of the new building would be expensive and could possibly impede the construction process. As a remedy, existing monitoring wells MW-1 and MW-2 will be decommissioned prior to construction activities. In addition, based on the absence of groundwater since it was installed in 2019, MW-7 will be decommissioned. These wells will be decommissioned in accordance with Washington State Administrative Code (WAC) 173-160-381.

The remaining monitoring well network MW-3 through MW-6, MW-8, MW-9, and MW-10 should be preserved during the redevelopment of the Site.

Regulatory Permitting and Waste Profiling

Tetrachloroethylene is a chlorinated solvent commonly used in dry cleaning operations. In Washington State, PCE as a spent solvent and media impacted with PCE are designated as an F-listed dangerous waste under state regulations. As a result, the site soils impacted with F-listed wastes must be managed under applicable Dangerous Waste regulations (WAC 173-303). Under these regulations, media such as soil that is contaminated with a listed hazardous waste must be managed in its entirety as a hazardous material until the hazardous constituents in the soil are below risk-based levels.

Analytical data and supplemental information for the impacted soils will be submitted to Ecology as a Contained-In Determination Request to determine if on-site soils contaminated with listed dangerous waste constituents (F002) may be exempt from management as dangerous wastes per the “Contained-In” Policy”.

Based on the environmental investigations completed to date, Terracon assumes approximately 300 to 500 cubic yards (approximately 540 to 900 tons) of soil with elevated concentrations of cVOCs exceeding the disposal facilities acceptance criteria and are considered Dangerous Waste (WAC 173-303) and require treatment prior to disposal. Furthermore, Terracon assumes that approximately 700 cubic yards of soil to be disposed at a Subtitle D Landfill under the contained-in determination. Data generated during the pre-remedial excavation subsurface investigation will be used to refine these estimates and will be presented in the Contained-In Determination Request to Ecology. It should be noted that this volumetric estimate is not to be considered the actual amount of Dangerous Waste soils and the actual volume of soil during excavation could be greater or less than the predicted estimate, as evaluated by analytical testing.

Focused Remedial Excavation

Given the soil conditions, depth to groundwater, and the nature and extent of soil contamination at the Site, this alternative takes into consideration shallow remedial excavation of contaminated soils and residual groundwater contamination, if any, in the area of the former dry cleaner facility. The proposed remedial excavation relative to Site features is depicted on Exhibit 12 of Appendix A.

Based on the findings of Terracon's soil disposal characterization investigation, soils containing elevated concentrations of cVOCs exceeding the disposal facility's acceptance criteria and as a result require disposal as hazardous waste at a TSD facility will be pre-treated in-situ prior to excavation and off-site disposal. In-situ soil pre-treatment will consist of amending the soils with approximately 20,000lbs of Regenesis Regenox or an equivalent remedial amendment, and 10,000lbs of hydrated NaOH solution in order to breakdown cVOC impacts in the soils. In-situ soil treatment will be completed by the GC using an excavator with an in-situ mixing attachment or similar equipment. Once the soil has been treated, it should be allowed to sit until PID readings and/or soil analytical results indicate the chemical oxidation is working and soil concentrations have decreased to acceptable concentrations before being excavated.

Following in-situ treatment, the treated soil will be excavated and stockpiled on the existing View Ridge Plaza building concrete slab and Terracon personnel will collect stockpile soil samples from the staged soil for laboratory analysis, the number of soil samples will be determined by the quantity of soil generated. As previously mentioned, Terracon assumes approximately 300 to 500 cubic yards (approximately 540 to 900 tons) of soil with elevated concentrations of cVOCs exceeding the disposal facilities acceptance criteria. Terracon infers that concentrations will be reduced to dangerous waste concentrations (between approximately 14 mg/kg and 60 mg/kg as PCE), and those soils will be required to be disposed as hazardous waste at Waste Management's Columbia Ridge Subtitle C Landfill located in Arlington, Oregon.

Based on findings of the RRIFS and our current understanding of the Site, which would be clarified based on the findings of the pre-remedial action site investigation, Terracon estimates that the total remedial excavation extent will be approximately 70 feet wide by 60 feet long and sloped to a maximum depth of 15 feet bgs and/or three feet into groundwater, whichever occurs first. It is anticipated that due to limiting factors, including utilities, undermining of utilities, and/or sidewalks and streets, the excavation area will be limited to at least five feet from the City of Everett Elm Street ROW to the west.

The estimated total volume of soil that would be excavated is approximately 1,250 cubic yards. Clean structural fill would be imported and compacted to restore the excavation areas to the original Site grades. Based on an estimated conversion factor of 1.8 tons per cubic yard, the estimated total of tons of contaminated soil that will be excavated is approximately 2,250 tons.

Field screening and confirmation soil sampling would be conducted during excavation activities to 1) confirm the presence of contaminated soil; 2) to evaluate disposal options for the material proposed for off-Site disposal; and 3) to document that cleanup levels are attained at the limits of excavation.

Soil samples will be collected by hand directly from the excavation or from the excavator bucket using disposable gloves and placed directly into laboratory supplied glassware. Each sample container will be labelled with the project number, date, time, boring number, and sample number. Soil samples will be placed into appropriate containers provided by the laboratory and immediately placed into a cooler containing ice or ice substitute. Samples will be delivered to a Washington State-accredited analytical laboratory, in accordance with the industry standard chain-of-custody protocol.

Furthermore, based on our understanding of Site redevelopment plans, the preparation of an EMMP is included as an element of this remedial action alternative. The EMMP shall include guidance regarding environmental construction monitoring, notification to contractors regarding the potential for encountering impacted soil and/or groundwater, construction dewatering of impacted groundwater, limited Site observation by a field geologist to document earthwork and excavation activities during earthwork phases of construction, guidance for handling potential dewatering fluids, and documenting and reporting.

Remedial Amendment

After confirmation that cVOC-impacted soil excavated to a maximum depth of 15 feet bgs and/or three feet into groundwater has been verified by review of analytical data generated from confirmatory soil sample collection, the excavation will be backfilled with imported clean structural fill and potentially “clean” overburden soils, if available. Backfilled placed from the base of the excavation to approximately three-feet above the static water table will be amended with Daramend Reagent, a PeroxyChem anaerobic bioremediation reagent. Approximately 10,000 lbs of the Daramend remedial amendment will be applied in approximately one-foot lift intervals simultaneously with the backfill material within the excavation using an excavator. The addition of a chemical reduction remedial amendment to the soil will provide for enhanced anerobic biodegradation of residual impacted groundwater, if present, located adjacent to and down-gradient of the excavation.

In-Situ Horizontal Injection Wells and Contingency Remedial Injections

Prior to, and during backfill of the excavation, four separate 50-foot lineal sections of 4-inch diameter polyvinyl chloride (PVC) slotted pipe with 0.080-inch machined slots will be installed horizontally across the excavation area at approximately 8 to 10 feet bgs, or in the upper limits of the observed water table (as determined in the field). The horizontal slotted pipe sections will be covered with a geotextile filter fabric and the pipes will be buried with Type 17 sand with gravel, or equivalent, as part of the excavation backfill process. The horizontal remediation slotted pipes

will be oriented east to west and stubbed up separately with 4-inch diameter solid PVC vertical riser pipes and 90-degree elbows. A threaded end cap will be installed on the opposing end of each horizontal slotted pipe section. Vertical riser pipes will be completed with a lockable plug and surface completion finished at final grade with a 12-inch flush mount monument and associated concrete pad. The proposed remedial excavation and horizontal injection wells relative to Site features are depicted on Exhibit 12.

In-situ chemical treatment can be an effective method of degrading various forms of contaminants dissolved in groundwater and absorbed in pore spaces. Bioremediation has been widely utilized as a method to accelerate natural anaerobic biodegradation processes and enhance existing microbial processes. In some cases, the addition of microbial populations and nutrients can accelerate the biodegradation of cVOCs. The addition of a mixture of naturally occurring bacteria and enzymes with beneficial nutrients to an aquifer has the potential to further stimulate microbial growth and development, creating an environment in which rates of biodegradation may be enhanced.

The injection wells will be registered with Ecology as an Underground Injection Control (UIC) permitted remediation pipes, and the in-situ chemical reduction (ISCR) injection products, concentrations, and amounts will be provided to Ecology.

In Terracon's professional opinion, the remedial excavation and addition of a remedial amendment to the excavation backfill will likely be sufficient to reduce groundwater concentrations below MTCA CULs, if impacts remain after cleanup is complete. However, in the event that additional remedial injections are required, the treatment injection well network can be used as a remedial amendment delivery system for future events.

4.3.2 Vapor Intrusion Mitigation System

The selected cleanup action alternative will incorporate a passive sub-slab VIMS with a vapor membrane compatible with contaminants in subsurface soil, soil gas, and/or groundwater. Although the VIMS will be installed as a passive system, the system will be designed and constructed to accommodate conversion to an active system, if warranted. Terracon anticipates working with the building architect to identify potential conflicts between the VIMS and the proposed building components.

After assessing potential installation issues associated with the incorporation of a VIMS, Terracon will prepare a Preliminary VIMS Design for owner's approval, describing specifications and materials to be used for the VIMS. Once approved, Terracon will prepare VIMS design plans and specifications to include a scaled layout of the system and corresponding system details, along with specifications for materials, installation, and quality control measures. Our design documents can also serve as a bid document to obtain the most qualified bid for installation of the VIMS.

Installation and Reporting

In accordance with the manufacturer's system warranty requirements, field observation and documentation shall be conducted by manufacturer-trained personnel. Terracon will provide manufacturer-trained personnel for these services. In addition, Terracon will provide engineering support during the construction of the VIMS, in the event that modifications to the VIMS design are required based on unforeseen building details and/or modifications.

Limited observation services will include:

- verifying that specified materials are used to construct the VIMS;
- measuring the granular backfill thickness;
- observing the installation of the vapor collection piping (and associated header piping) prior to the installation of the base layer;
- observing the installation of the base layer prior to being covered with the membrane;
- observing the application of the membrane layer; and
- observing placement of the protective layer on the membrane prior to concrete placement.

After the asphaltic emulsion layer has been installed and properly cured, Terracon personnel will document the thickness of the asphaltic emulsion layer by measuring coupon samples with calipers and will observe smoke testing of the vapor membrane by the certified VIMS installer. If leaks in the membrane are observed during the smoke test, they will be repaired according to the manufacturer's specifications. Terracon requests that they be notified by the General Contractor a minimum of seven days before the above-described work is conducted so that they can schedule appropriate personnel to conduct observation services.

Following installation of the sub-slab and above-grade VIMS components, a VIMS Installation Observation Report will be prepared. This report will provide the project background as well as a summary of field activities observed during the VIMS installation.

VIMS Vapor Sampling

Following the installation and completion of the VIMS, performance vapor sampling will be completed to assess the efficacy of the VIMS. Specifically, a Terracon field representative will mobilize to the site to collect vapor samples from the VIMS' sampling ports for two events, one during the winter season and one during the summer season.

The Summa™ canisters and flow regulators will be provided by an analytical laboratory. Field vacuum data will be recorded on for each of the canisters both, prior to, and following sample collection. A total of four vapor samples, two from the winter event and two from the summer event, will be collected from the site.

4.3.3 Replacement Monitoring Well Installation and Sampling

In an effort to assess groundwater quality following cleanup activities, four replacement permanent groundwater monitoring wells will be installed to the north and south of the excavation area and down-gradient of the source area. Proposed monitoring well locations relative to Site features are depicted on Exhibit 12.

Direct-push monitoring well borings will be advanced to a maximum depth of 20 feet bgs, to a depth of approximately 5 feet below the apparent groundwater interface, or to refusal, whichever is shallower. The borings will be completed by a Washington State-licensed driller.

Soil will be observed to document subsurface conditions and visual or olfactory indications of impacts. Field screening will be performed by utilizing the "headspace method" and/or by separating the soil in the sampler with a decontaminated steel trowel and placing the probe of the PID in the space between the soil to estimate the concentration of volatile components. In the absence of field indications, soil samples will be collected from the depth interval most likely to be impacted, change in lithology, from the upper soil zone, the capillary fringe, and/or as determined in the field by the sampling professional. Soil samples will be collected as additional confirmation soil samples from just beyond the limits of the proposed excavation. The purpose of collecting the samples is to identify the cVOCs concentrations that may remain in place.

Upon completion, the soil borings will be converted to permanent groundwater monitoring wells. The anticipated well construction will be completed in accordance with Chapter 173-160 Washington Administrative Code (WAC), *Minimum Standards for Construction and Maintenance of Wells*.

After a period of approximately 30 days following the cleanup activities, Terracon personnel will measure depth to groundwater and collect groundwater samples from the four replacement monitoring wells and existing monitoring wells MW-3 through MW-6, and MW-8 through MW-10. In addition, the cleanup alternative also includes one year of quarterly groundwater monitoring to assess the effectiveness of the remedial action and monitor cVOC groundwater impacts, if present. Groundwater samples collected from on-site monitoring wells will be analyzed for cVOCs, such as PCE, TCE, cDCE, and VC. Please note that Site monitoring wells MW-A, MW-B, and MW-C have not had cVOC concentrations above respective MTCA cleanup levels and will not be sampled.

Upon completion of four quarterly groundwater monitoring events an annual report will be prepared. In the event that concentrations of cVOCs during a groundwater monitoring event suggests that additional sampling, remedial injections, or other investigation/remedial action appear warranted, the client will be contacted to discuss findings and a revised remedial

approach, as necessary. Final copies of the report with incorporated comments will be submitted to Ecology.

4.3.4 Institutional Controls

This cleanup alternative also includes the implementation of institutional controls, as an Environmental Covenant. In order to implement institutional controls as an environmental covenant, as proposed, Ecology will require four quarters of compliant groundwater monitoring events to demonstrate that COCs in groundwater are below their respective cleanup levels at the points of compliance and are not migrating off-Site. At the completion of the remedial action and following the initial groundwater monitoring event, Terracon assumes four quarters of compliant groundwater monitoring results.

Once groundwater monitoring has demonstrated compliance, Terracon will draft an Environmental Covenant for review and a determination of NFA will be requested from Ecology. Specifically, institutional controls involve implementation of legal and/or physical restrictions on land use to limit exposure potential. Such restrictions may be implemented as a component of a remedial action or they may be pre-existing restrictions. Land use restrictions might prohibit uses of a Site that would compromise the integrity of the existing surface cap and could require that the cap is maintained as long as COCs remain at concentrations greater than the CULs in soil and/or groundwater beneath the cap. Ideally, land use restrictions would remain in place for the Site until concentrations of COCs attenuate to concentrations less than their associated CULs. It should be noted that Terracon infers that the proposed cVOC impacts above MTCA cleanup levels are limited to areas within the Site boundaries.

Based on implementing the Site redevelopment plans, capping, containing, and restricting the use of soil and groundwater, the exposure pathways shouldl be eliminated. Therefore, the impacts present beneath the Site will no longer be considered a threat to human health or the environment. The planned construction of the future building foundation will cap and contain soil impacts. Implementation of an environmental covenant will restrict the use of soil and groundwater at the site. The building slab and surrounding impervious surfaces will prevent surface water, animal, or human contact with any impacts for the lifetime of the constructed building, while reducing short-term risks and impacts to the area. In addition, the installation of a VIMs will prevent potential vapor intrusion issues in the proposed building.

In addition, the Environmental Covenant will require the preparation of a monitoring and contingency plan that would involve long term groundwater monitoring and soil vapor sampling, discussed further in Section 4.3.5.

4.3.5 Compliance Groundwater and Vapor Monitoring & Reporting

As a part of the remedial action alternative and implementation of an Environmental Covenant, this cleanup alternative includes five years of biennial, as determined by Ecology, groundwater monitoring to assess effectiveness of the remedial action and monitor the migration of the remaining impacts, if any, as a part of the monitoring and contingency plan. Terracon intends to conduct biennial groundwater sampling during the 5-year compliance sampling period. We have proposed the 1st and 3rd quarters for years 2021, 2023 and 2025.

Prior to sampling the wells, Terracon personnel will measure the depth to groundwater below TOC in each of the 11 wells using an electronic water well sounder. The well TOC elevation and depth to groundwater measurements will be used to calculate the groundwater elevation at each well. Based on the groundwater elevation data, Terracon will estimate the groundwater flow direction beneath the horizontal groundwater gradient at the site and produce a groundwater potentiometric contour map.

The four replacement groundwater monitoring wells and MW-3 through MW-6, and MW-8 through MW-10 will be sampled. Groundwater samples collected from on-site monitoring wells will be analyzed for cVOCs, such as PCE, TCE, cDCE, and VC.

Concurrent with the proposed 2021 1st and 3rd quarter groundwater sampling events, Terracon has proposed to conduct biennial vapor sampling. Specifically, a Terracon field representative will mobilize to the site to collect two sub-slab vapor samples from the VIMS' sampling ports for each event.

The Summa™ canisters and flow regulators will be provided by an analytical laboratory. Field vacuum data will be recorded on for each of the canisters both, prior to, and following sample collection. A total of 12 soil vapor samples, two from each sampling event, will be collected from the site.

Upon completion of each biennial groundwater and vapor monitoring event, a report will be prepared and submitted to Ecology.

In the event that concentrations of COCs during a groundwater and/or vapor monitoring event suggests that additional sampling, remedial injections, or other investigation/remedial action appear warranted, the client will be contacted to discuss findings and a revised remedial approach, as necessary.

4.3.6 Environmental Information Management Entry

Ecology typically doesn't grant a final NFA determination for a site until all site data have been entered into Ecology's Environmental Information Management System (EIM) database. Terracon will inventory and upload current data to Ecology's EIM database.

Upon receiving a final NFA determination letter from Ecology and upon the client's written approval, Terracon will contract with a Washington-licensed driller to decommission the Site groundwater monitoring wells and horizontal slotted remediation piping. Decommissioning will be completed in accordance with Chapter 173-160 *Standards for Decommissioning a Resource Protection Well.* The wells will be decommissioned by placing bentonite chips inside the well casing and hydrating the bentonite with potable water. The horizontal slotted remediation piping will be decommissioned by pumping cement grout into the pipes. The flush mount well monuments and vaults will be sealed with concrete and left in place.

4.3.7 Public Participation

In addition to public distribution and review, the CAP will be provided to Ecology and Snohomish County. Terracon will notify Snohomish County of the potential groundwater impacts in the Elm Street ROW, who has a fee interest at the ROW.

4.4 Opinion Request

Terracon respectfully requests an opinion from Ecology regarding the proposed groundwater monitoring well locations detailed in Section 4.3.5 and the associated groundwater sampling plan, as well as an opinion regarding the remedial approach relative to the pursuit of an NFA determination for the Site.

5.0 STANDARD OF CARE, SCOPE LIMITATIONS AND RELIANCE

5.1 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These environmental investigation services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal.

5.2 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, cVOCs, or other constituents may have been latent, inaccessible, unobservable, non-detectable, or not present during these services. We cannot represent that the Site contains no hazardous substances, toxic materials, cVOCs, or other latent conditions beyond those identified during Terracon's RRIFS. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services. Albite

5.3 Reliance

This report has been prepared for the exclusive use of Catalyst Capital Holdings, LLC., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Catalyst Capital Holdings, LLC., and Terracon. Any unauthorized distribution or reuse is at Catalyst Capital Holdings, LLC's., sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in our proposals, this CAP report, and Terracon's Agreement for Services. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Catalyst Capital Holdings, LLC., and all relying parties unless otherwise agreed in writing.

6.0 REFERENCES

Environmental Partners, Inc. (EPI) 1993. Phase I Environmental Assessment. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, May 28, 1993.

Stratum Group (Stratum) 2013. Environmental Sampling Summary. 220 Olympic Boulevard, Everett, Snohomish County, Washington, November 14, 2013.

Stratum Group (Stratum) 2014. Environmental Site Assessment: Phase II Soil and Groundwater Investigation. 220 Olympic Boulevard, Everett, Snohomish County, Washington, February 28, 2014.

Environmental Partners, Inc. (EPI) 2014. Additional Site Characterization, Everett Masonic, 220 Olympic Boulevard, Everett, Snohomish County, Washington, December 2, 2014

Environmental Partners, Inc. (EPI) 2015. Additional Site Characterization with Indoor Air Data, Everett Masonic, 220 Olympic Boulevard, Everett, Snohomish County, Washington, March 4, 2015

Notkin Mechanical Engineers 2015. View Ridge Plaza Existing Mechanical Systems Conditions Survey. 220 Olympic Boulevard, Everett, Snohomish County, Washington, September 9, 2015

Terracon Consultants Inc. (Terracon) 2015. Limited Site Investigation. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, November 19, 2015.

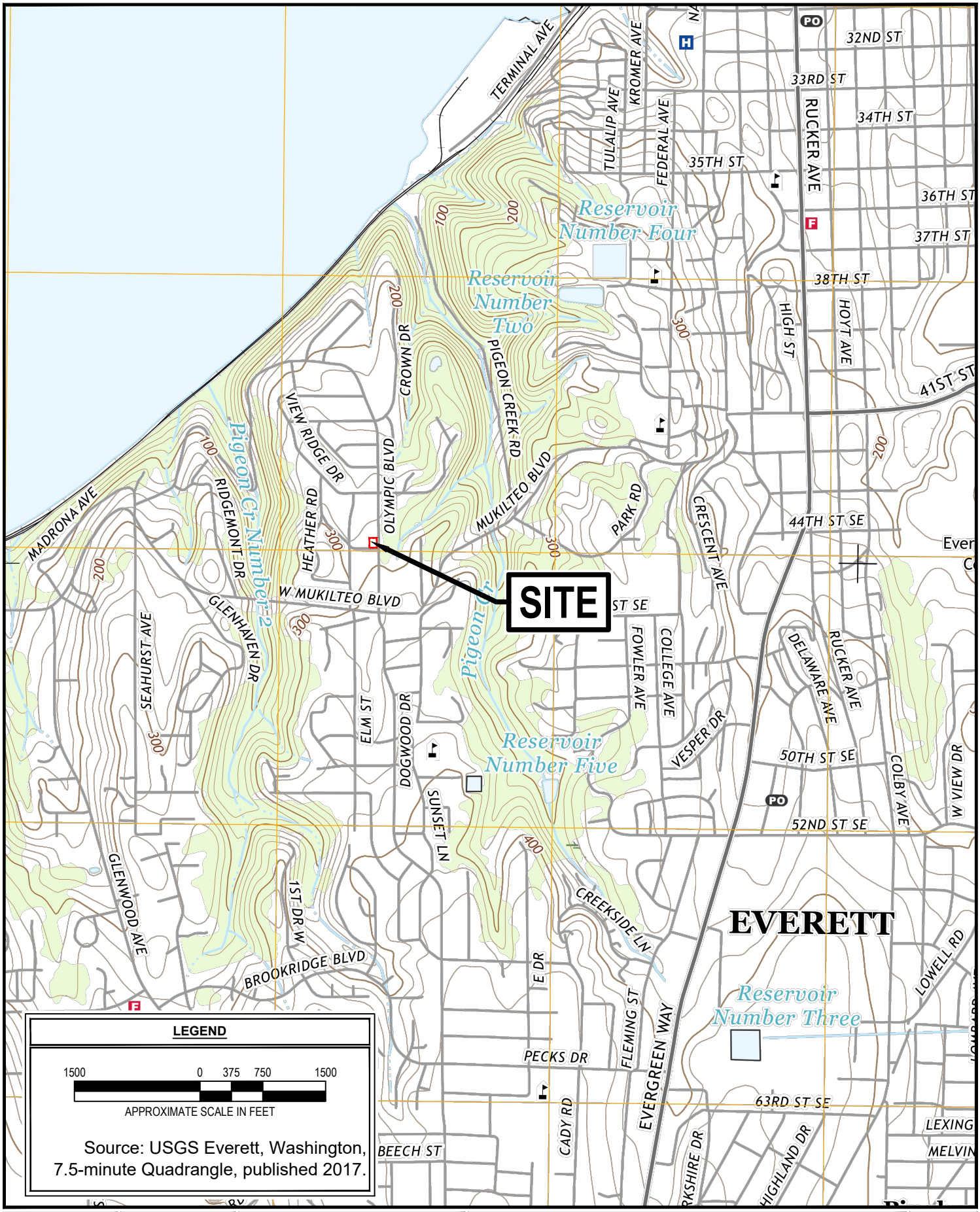
Terracon Consultants Inc. (Terracon) 2015a. Revised Limited Site Investigation. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, January 7, 2016.

Terracon Consultants Inc. (Terracon) 2018. Limited Indoor Air Quality Assessment. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, June 12, 2018.

Terracon Consultants Inc. (Terracon) 2019. Revised Remedial Investigation/Feasibility Study Report. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, October 31, 2019.

APPENDIX A – EXHIBITS

Exhibit 1. Site Location Map
Exhibit 2. Aerial and Utilities Map
Exhibit 3. Site Diagram
Exhibit 4. Detailed Site Diagram
Exhibit 5. Soil Analytical Concentrations Map
Exhibit 6. Cross-Section A-A'
Exhibit 7. Cross-Section B-B'
Exhibit 8. Groundwater Analytical Concentrations Map
Exhibit 9. Groundwater Flow and Gradient Map April 2019
Exhibit 10. Groundwater Flow and Gradient Map June 2019
Exhibit 11. Groundwater Flow and Gradient Map July 2020
Exhibit 12. Proposed Remedial Excavation, Groundwater Monitoring Wells, Horizontal Injection Wells Plan



LEGEND

1500 0 375 750 1500

APPROXIMATE SCALE IN FEET

Source: USGS Everett, Washington, 7.5-minute Quadrangle, published 2017.

Project Mngr:	BAJ
Drawn By:	AMP
Checked By:	BAJ
Approved By:	BAJ
Project No.	81197152
Scale:	AS SHOWN
File No.	EXHIBIT 1
Date:	July 2019

Terracon
Consulting Engineers and Scientists
21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043
PH. (425) 771-3304 FAX. (425) 771-3549

SITE LOCATION MAP

VIEW RIDGE PLAZA
220 OLYMPIC BOULEVARD
EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 1

N

FORMER MASONIC LODGE

FORMER OLYMPIC DRY CLEANERS

FORMER BARBER SHOP

FORMER HEAD START

AWNING

PARKING

INSURANCE AGENCY

FRUIT STAND

PARKING

76 GAS STATION

ESPRESSO MILANO COFFEE STAND

FUELING CANOPY

DOGWOOD ELM CREEK CULVERT

ELM STREET

W MUKILTEO BOULEVARD

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-A MW-B MW-C

SB-1 SB-2 SB-3 SB-4 SB-5 SB-6 SB-7 SB-8

HA-1 HA-2 HA-3

DP-1 DP-2 DP-3

B-1 B-2 B-3 B-4 B-5

SW MH

LEGEND:

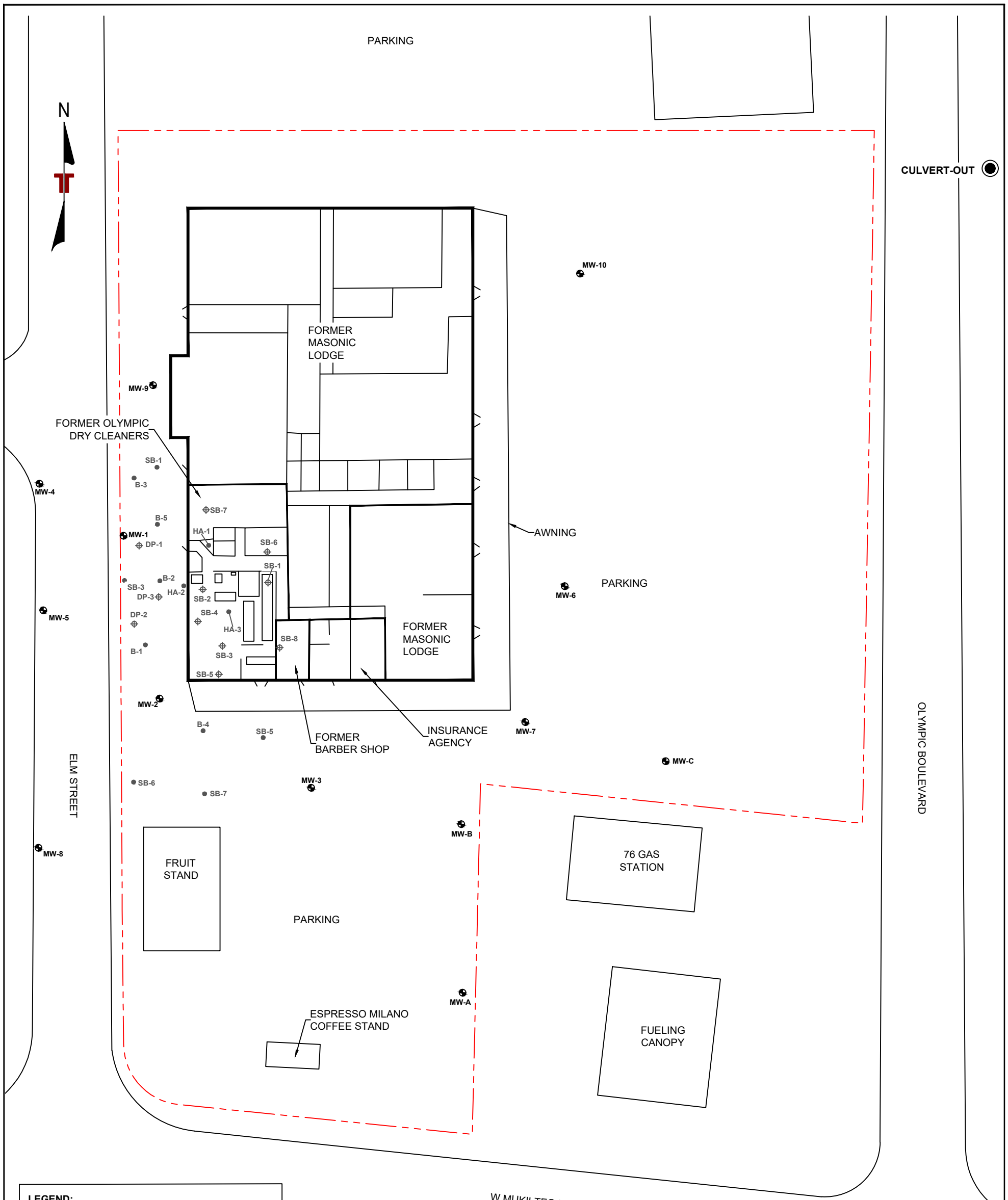
- APPROXIMATE SITE BOUNDARY
- EXISTING VIEW RIDGE PLAZA BUILDING TO BE DEMOLISHED
- **MW-1** MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- **DP-1 SB-1** TERRACON BORING NUMBER AND APPROXIMATE LOCATION
- **SB-1** EPI BORING NUMBER AND APPROXIMATE LOCATION
- **HA-1** EPI HAND-AUGERED BORING NUMBER AND APPROXIMATE LOCATION
- **B-1** STRATUM GROUP BORING NUMBER AND APPROXIMATE LOCATION
- SS SANITARY SEWER LATERAL
- SW STORMWATER LINE
- G NATURAL GAS LINE
- W WATER SERVICE LINE

30 0 10 20 30

APPROXIMATE SCALE IN FEET

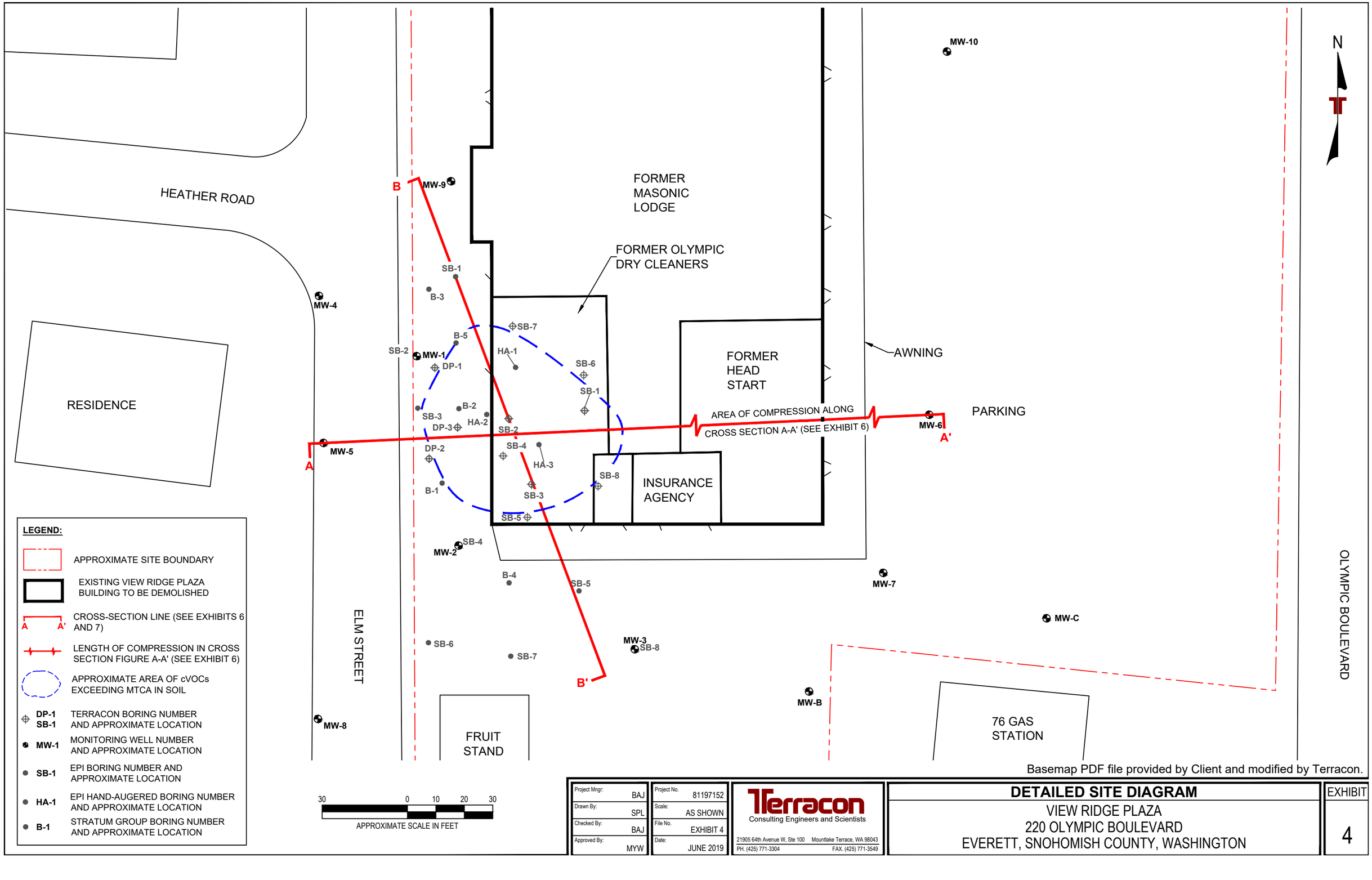
Project Mngr: BAJ	Project No. 81197152	Terracon Consulting Engineers and Scientists	**AERIAL & UTILITIES MAP**
Drawn By: AMP	Scale: AS SHOWN	21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043	VIEW RIDGE PLAZA
Checked By: BAJ	File No. EXHIBIT 2	PH. (425) 771-3304 FAX. (425) 771-3549	220 OLYMPIC BOULEVARD
Approved By: MYW	Date: JUNE 2019		EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 2



Project Mngr: BAJ	Project No. 81197152	Terracon Consulting Engineers and Scientists	**SITE DIAGRAM**
Drawn By: AMP	Scale: AS SHOWN	21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043	VIEW RIDGE PLAZA
Checked By: BAJ	File No. EXHIBIT 3	PH. (425) 771-3304 FAX. (425) 771-3549	220 OLYMPIC BOULEVARD
Approved By: MYW	Date: JUNE 2019		EVERETT, SNOHOMISH COUNTY, WASHINGTON

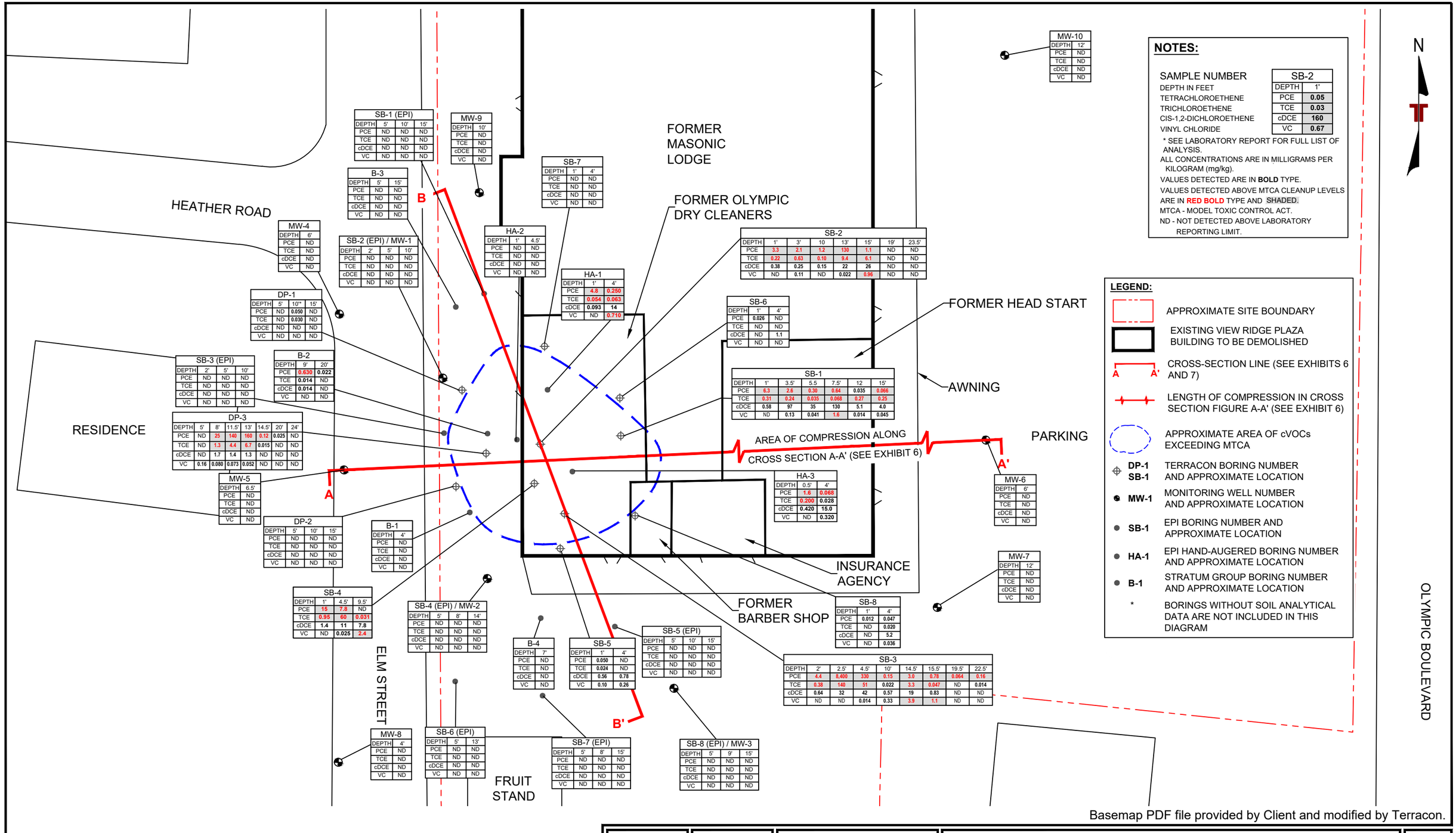
EXHIBIT 3



Basemap PDF file provided by Client and modified by Terracon.

Project Mngr: BAJ	Project No. 81197152	Terracon Consulting Engineers and Scientists	**DETAILED SITE DIAGRAM**
Drawn By: SPL	Scale: AS SHOWN	21905 64th Avenue W, Ste 100 Mountlake Terrace, WA 98043	VIEW RIDGE PLAZA
Checked By: BAJ	File No. EXHIBIT 4	PH. (425) 771-3304 FAX. (425) 771-3549	220 OLYMPIC BOULEVARD
Approved By: MYW	Date: JUNE 2019		EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 4



NOTES:

SAMPLE NUMBER
DEPTH IN FEET
TETRACHLOROETHENE
TRICHLOROETHENE
CIS-1,2-DICHLOROETHENE
VINYL CHLORIDE

SB-2	
DEPTH	1'
PCE	0.05
TCE	0.03
cDCE	160
VC	0.67

* SEE LABORATORY REPORT FOR FULL LIST OF ANALYSIS.
ALL CONCENTRATIONS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg).
VALUES DETECTED ARE IN **BOLD** TYPE.
VALUES DETECTED ABOVE MTCA CLEANUP LEVELS ARE IN **RED BOLD** TYPE AND SHADED.
MTCA - MODEL TOXIC CONTROL ACT.
ND - NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.

LEGEND:

- APPROXIMATE SITE BOUNDARY
- EXISTING VIEW RIDGE PLAZA BUILDING TO BE DEMOLISHED
- A A' CROSS-SECTION LINE (SEE EXHIBITS 6 AND 7)
- LENGTH OF COMPRESSION IN CROSS SECTION FIGURE A-A' (SEE EXHIBIT 6)
- APPROXIMATE AREA OF cVOCs EXCEEDING MTCA
- **DP-1 SB-1** TERRACON BORING NUMBER AND APPROXIMATE LOCATION
- **MW-1** MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- **SB-1** EPI BORING NUMBER AND APPROXIMATE LOCATION
- **HA-1** EPI HAND-AUGERED BORING NUMBER AND APPROXIMATE LOCATION
- **B-1** STRATUM GROUP BORING NUMBER AND APPROXIMATE LOCATION
- * BORINGS WITHOUT SOIL ANALYTICAL DATA ARE NOT INCLUDED IN THIS DIAGRAM

Basemap PDF file provided by Client and modified by Terracon.

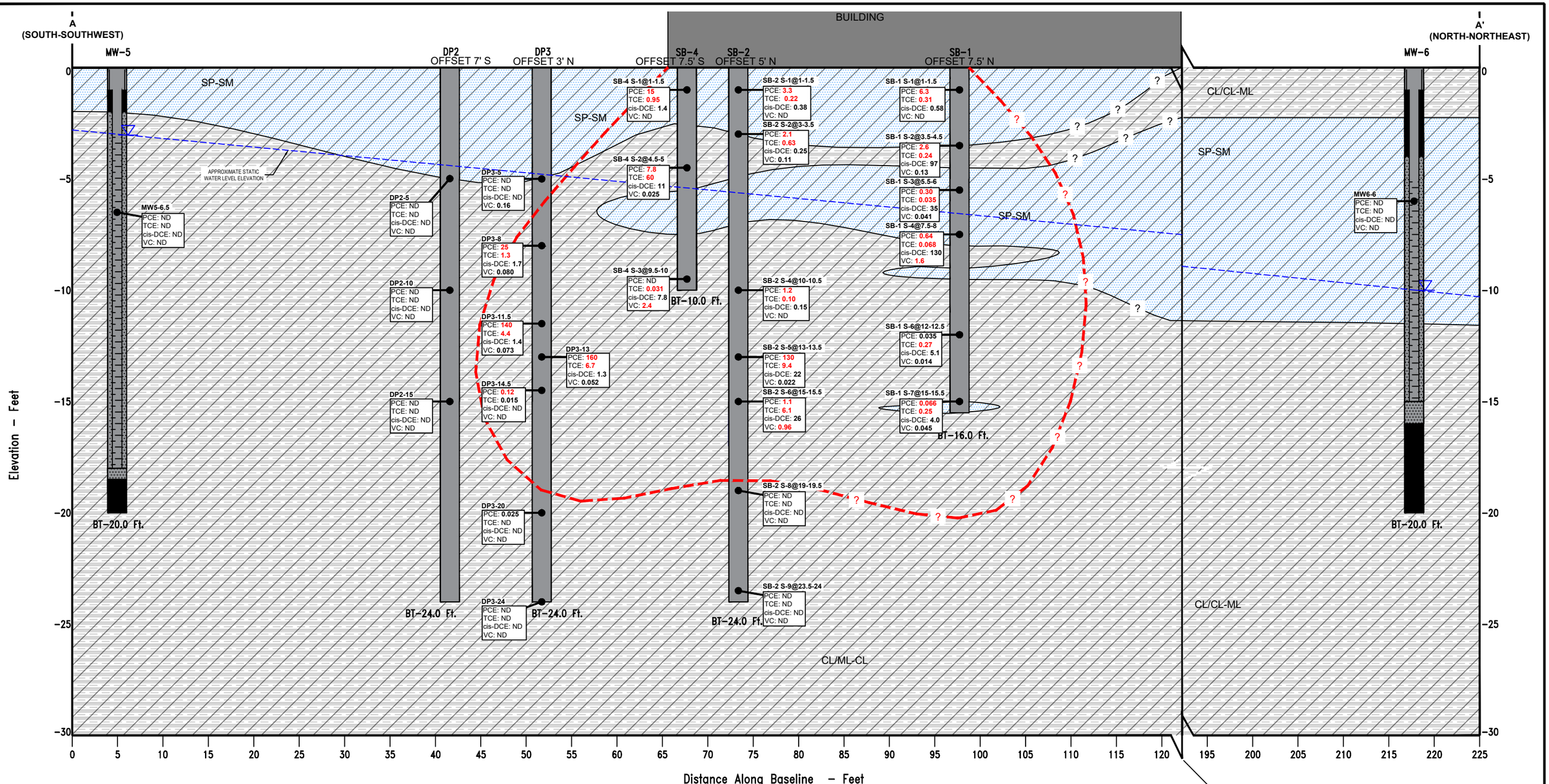
Project Mngr:	BAJ
Drawn By:	SPL
Checked By:	BAJ
Approved By:	MYW
Project No.	81197152
Scale:	AS SHOWN
File No.	EXHIBIT 5
Date:	JUNE 2019

Terracon
Consulting Engineers and Scientists
21905 64th Avenue W, Ste 100 Mountlake Terrace, WA 98043
PH. (425) 771-3304 FAX. (425) 771-3549

SOIL ANALYTICAL CONCENTRATIONS MAP

VIEW RIDGE PLAZA
220 OLYMPIC BOULEVARD
EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 5



WELL DETAIL
B-2
SCREENING AREA
BENTONITE CHIP BACKFILL
BT-29.0 Ft.

B-1 BORING NUMBER

APPROXIMATE LITHOLOGY CONTACT

BT 26.5' APPROXIMATE BORING TERMINATION DEPTH (FEET)

OFFSET 8' E APPROXIMATE DISTANCE AND DIRECTION OF BORING FROM BASELINE

DP2-5
PCE: 30
TCE: 0.03
cis-DCE: 7
VC: 6
NUMBER AND APPROXIMATE SOIL SAMPLE LOCATION WITH ANALYTICAL DATA (mg/kg)

ML/ML-CL: SILT TO SILTY CLAY WITH MINOR AMOUNTS OF SAND AND/ OR GRAVEL

SP/SP-SM: SAND WITH VARYING AMOUNTS OF SILT AND GRAVEL

FILL: FILL

— ? — APPROXIMATE EXTENTS OF LITHOLOGY

APPROXIMATE LIMIT OF cVOC IMPACTS

NOTES:
- PLEASE REFER TO CROSS SECTION LINES ON EXHIBIT 4.

Project Mngr:	BAJ
Drawn By:	SPL
Checked By:	KSB
Approved By:	MYW
Project No.	81197152
Scale:	NOT TO SCALE
File No.	Exhibit 6
Date:	August 2019

Terracon
Consulting Engineers and Scientists
21905 64th Avenue W, Ste 100 Mountlake Terrace, WA 98043
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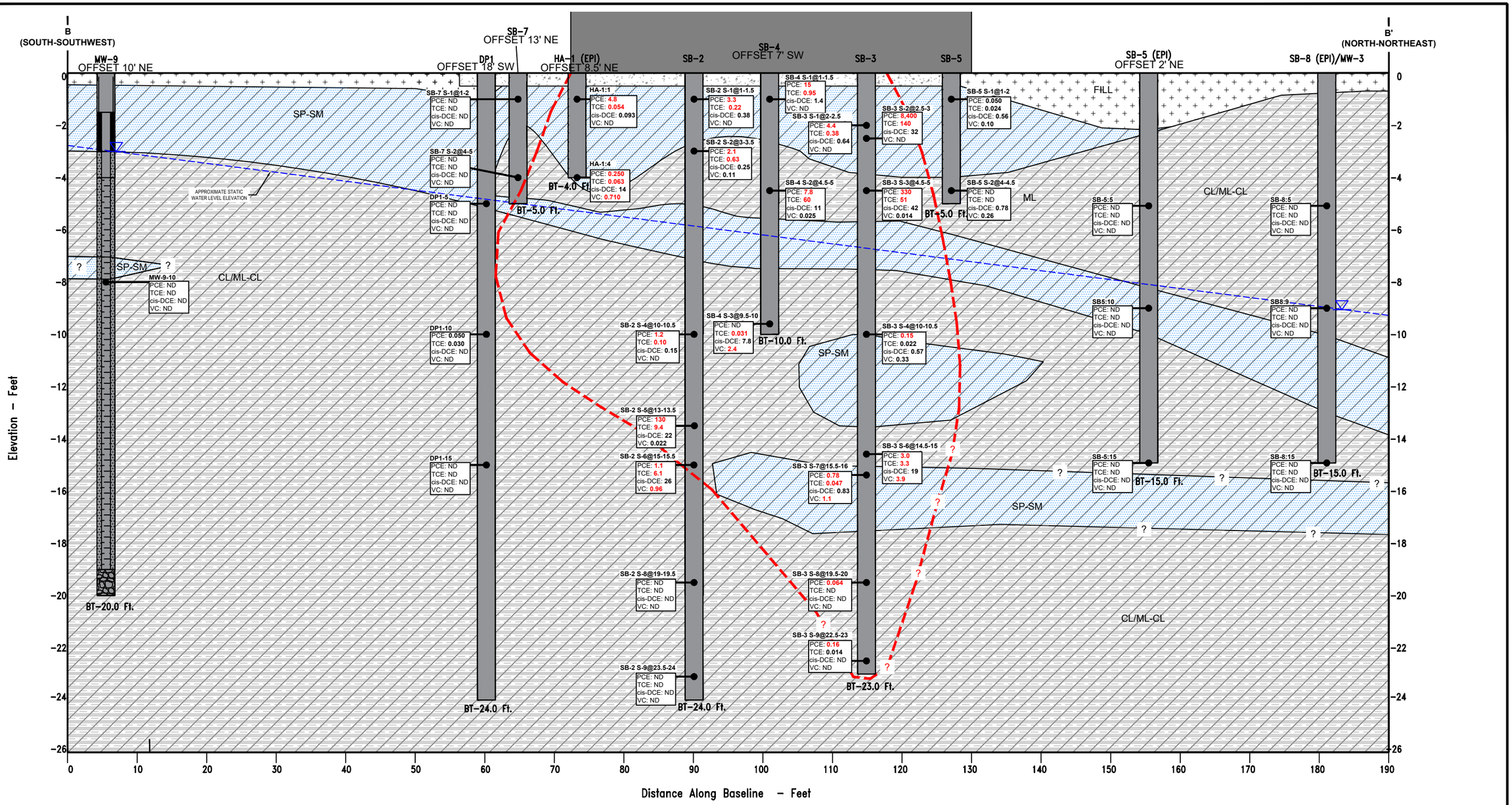
CROSS SECTION A-A'

VIEW RIDGE PLAZA
220 OLYMPIC BOULEVARD
EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 6



WELL DETAIL
B-2
SCREENING AREA
BENTONITE CHIP BACKFILL
BT-29.0 Ft.

B-1 BORING NUMBER

APPROXIMATE LITHOLOGY CONTACT

BT 26.5' APPROXIMATE BORING TERMINATION DEPTH (FEET)

OFFSET 8' E APPROXIMATE DISTANCE AND DIRECTION OF BORING FROM BASELINE

DP2-5 PCE: 30 TCE: 0.03 cis-DCE: 7 VC: 6 NUMBER AND APPROXIMATE SOIL SAMPLE LOCATION WITH ANALYTICAL DATA (mg/kg)

ML/CL: SILT TO SILTY CLAY WITH MINOR AMOUNTS OF SAND AND/ OR GRAVEL

SP/SP-SM: SAND WITH VARYING AMOUNTS OF SILT AND GRAVEL

FILL: FILL

SW: WELL-GRADED SAND

— ? — APPROXIMATE EXTENTS OF LITHOLOGY

APPROXIMATE LIMIT OF cVOC IMPACTS

NOTES:
- PLEASE REFER TO CROSS SECTION LINES ON EXHIBIT 4.

Project Mngr:	BAJ
Drawn By:	SPL
Checked By:	KSB
Approved By:	MYW
Project No.	81197152
Scale:	NOT TO SCALE
File No.	Exhibit 7
Date:	August 2019

Terracon
Consulting Engineers and Scientists
21905 64th Avenue W, Ste 100 Mountlake Terrace, WA 98043
PH. (425) 771-3304 FAX. (425) 771-3549

CROSS SECTION B-B'

VIEW RIDGE PLAZA
220 OLYMPIC BOULEVARD
EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 7

N

FORMER MASONIC LODGE

FORMER HEAD START

FORMER OLYMPIC DRY CLEANERS

AWNING

PARKING

INSURANCE AGENCY

FORMER BARBER SHOP

ELM STREET

FRUIT STAND

PARKING

76 GAS STATION

ESPRESSO MILANO COFFEE STAND

FUELING CANOPY

W MUKILTEO BOULEVARD

MW-9

Date	PCE	TCE	cDCE	VC
6/13/19	ND	ND	ND	ND

SB-1 (EPI)

Date	PCE	TCE	cDCE	VC
10/15/14	ND	ND	ND	ND

MW-4

Date	PCE	TCE	cDCE	VC
6/13/19	ND	ND	ND	ND

MW-1

Date	PCE	TCE	cDCE	VC
10/24/14	ND	ND	8.7	0.33
9/3/15	ND	ND	3.8	0.66

DP-1

Date	PCE	TCE	cDCE	VC
9/17/15	330	42	54	2.8

SB-3 (EPI)

Date	PCE	TCE	cDCE	P
10/15/14	ND	ND	ND	ND

DP-3

Date	PCE	TCE	cDCE	VC
9/17/15	13,000	870	1,100	66

MW-5

Date	PCE	TCE	cDCE	VC
6/13/19	ND	ND	ND	ND

DP-2

Date	PCE	TCE	cDCE	VC
9/17/15	21	3	4.6	0.46

B-1

Date	PCE	TCE	cDCE	VC
10/24/13	ND	ND	ND	0.67

MW-2

Date	PCE	TCE	cDCE	VC
10/24/14	ND	ND	ND	ND
9/3/15	ND	ND	ND	ND

B-5

Date	PCE	TCE	cDCE	VC
10/24/13	ND	ND	ND	0.28

SB-2

Date	PCE	TCE	cDCE	VC
9/17/15	ND	340	3,600	240

SB-1

Date	PCE	TCE	cDCE	VC
9/17/15	ND	ND	13,000	830

SB-3

Date	PCE	TCE	cDCE	VC
9/17/15	24,000	2,100	4,700	750

B-4

Date	PCE	TCE	cDCE	VC
10/24/13	ND	ND	ND	0.98

SB-6 (EPI)

Date	PCE	TCE	cDCE	VC
10/15/14	ND	ND	ND	ND

MW-3

Date	PCE	TCE	cDCE	VC
10/24/14	ND	ND	ND	ND
9/3/15	ND	ND	ND	ND

MW-8

Date	PCE	TCE	cDCE	VC
6/13/19	ND	ND	ND	ND

MW-10

Date	PCE	TCE	cDCE	VC
6/13/19	ND	ND	ND	ND

MW-6

MW-7

Dry

MW-C

Date	PCE	TCE	cDCE	VC
8/18/14	ND	ND	ND	ND

MW-B

Date	PCE	TCE	cDCE	VC
8/18/14	ND	ND	ND	ND

MW-A

Date	PCE	TCE	cDCE	VC
8/18/14	ND	ND	ND	ND

NOTES:

PCE: TETRACHLOROETHENE
TCE: TRICHLOROETHENE
cDCE: CIS-1,2-DICHLOROETHENE
VC: VINYL CHLORIDE

* SEE LABORATORY REPORT FOR FULL LIST OF ANALYSES.
ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/l).
VALUES DETECTED ARE IN **BOLD** TYPE.
VALUES DETECTED ABOVE MTCA CLEANUP LEVELS ARE IN **RED BOLD** TYPE SHADED.
MTCA - MODEL TOXIC CONTROL ACT.
ND - NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.

LEGEND:

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE AREA OF cVOCs EXCEEDING MTCA
- **DP-1 / SB-1** TERRACON TEMPORARY WELL NUMBER AND APPROXIMATE LOCATION
- **MW-1** MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- **SB-1** EPI TEMPORARY WELL NUMBER AND APPROXIMATE LOCATION
- **B-1** STRATUM GROUP TEMPORARY WELL NUMBER AND APPROXIMATE LOCATION

30 0 10 20 30

APPROXIMATE SCALE IN FEET

Project Mngr: BAJ	Project No. 81197152	Terracon Consulting Engineers and Scientists	**GROUNDWATER ANALYTICAL CONCENTRATIONS MAP**
Drawn By: AMP	Scale: AS SHOWN	21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043	VIEW RIDGE PLAZA
Checked By: BAJ	File No. EXHIBIT 8	PH. (425) 771-3304 FAX. (425) 771-3549	220 OLYMPIC BOULEVARD
Approved By: MYW	Date: JUNE 2019		EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 8

MW-10
(297.1)

FORMER
MASONIC
LODGE

SW
MH

SW

MW-4
(297.97)

MW-1
(296.85)

297

295

FORMER
OLYMPIC DRY
CLEANERS

FORMER
HEAD
START

AWNING

SW

PARKING

MW-6
(292.89)

MW-5
(297.71)

INSURANCE
AGENCY

SW

MW-2
(297.17)

SW
MH

295

297

299

FORMER
BARBER
SHOP

MW-7
(DRY)

SW

MW-C
(304.71)

ELM STREET

MW-3
(292.55)

295

MW-B
(295.82)

FRUIT
STAND

PARKING

295

297

299

SW

294

MW-A
(294.90)

ESPRESSO MILANO
COFFEE STAND

SW

DOGWOOD ELM CREEK CULVERT

SW

W MUKILTEO BOULEVARD

SW

LEGEND:

- APPROXIMATE SITE BOUNDARY
- **MW-2 (297')** WELL APPROXIMATE LOCATION WITH GROUNDWATER ELEVATION (4/29/2019)
- 297 GROUNDWATER CONTOURS (FEET)
- GROUNDWATER FLOW DIRECTION
- * MW-B WAS BLOCKED AND COULD NOT BE MEASURED

30 0 10 20 30

APPROXIMATE SCALE IN FEET

Project Mngr:	BAJ
Drawn By:	JWD
Checked By:	BAJ
Approved By:	MYW
Project No.	81197152
Scale:	AS SHOWN
File No.	EXHIBIT 9
Date:	AUG 2019

Terracon
Consulting Engineers and Scientists
21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043
PH. (425) 771-3304 FAX. (425) 771-3549

GROUNDWATER FLOW AND GRADIENT MAP - APRIL 2019

VIEW RIDGE PLAZA
220 OLYMPIC BOULEVARD
EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 9

N

MW-10
(297.06)

MW-9
(296.39)

MW-4
(297.55)

MW-1
(296.67)

MW-5
(297.57)

MW-2
(296.89)

MW-8
(297.12)

MW-3
(292.46)

MW-6
(292.8)

MW-7
(DRY)

MW-C
(304.44)

MW-B*

MW-A
(294.58)

FORMER
MASONIC
LODGE

FORMER
OLYMPIC DRY
CLEANERS

FORMER
HEAD
START

INSURANCE
AGENCY

FORMER
BARBER
SHOP

AWNING

PARKING

FRUIT
STAND

PARKING

ESPRESSO MILANO
COFFEE STAND

ELM STREET

DOGWOOD ELM CREEK CULVERT

W MUKILTEO BOULEVARD

296 294 SW SW MH

LEGEND:

- APPROXIMATE SITE BOUNDARY
- MW-2 (297') — WELL APPROXIMATE LOCATION WITH GROUNDWATER ELEVATION (4/29/2019)
- 297 — GROUNDWATER CONTOURS (FEET)
- GROUNDWATER FLOW DIRECTION
- * MW-B WAS BLOCKED AND COULD NOT BE MEASURED

30 0 10 20 30
APPROXIMATE SCALE IN FEET

Project Mngr: BAJ	Project No. 81197152	Terracon Consulting Engineers and Scientists	**GROUNDWATER FLOW AND GRADIENT MAP - JUNE 2019**
Drawn By: JWD	Scale: AS SHOWN	21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043	VIEW RIDGE PLAZA
Checked By: BAJ	File No. EXHIBIT 10	PH. (425) 771-3304 FAX. (425) 771-3549	220 OLYMPIC BOULEVARD
Approved By: MYW	Date: AUG 2019		EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 10

N

MW-10
(297.07)

MW-9
(296.43)

MW-4
(297.59)

MW-1
(296.46)

MW-5
(296.55)

MW-2
(296.50)

MW-8
(296.79)

MW-6
(292.87)

MW-7
(dry)

MW-C
(304.25)

MW-3
(292.48)

MW-B
(295.22)

MW-A
(294.55)

FORMER
MASONIC
LODGE

FORMER
OLYMPIC DRY
CLEANERS

FORMER
HEAD
START

INSURANCE
AGENCY

FORMER
BARBER
SHOP

AWNING

PARKING

PARKING

FRUIT
STAND

ESPRESSO MILANO
COFFEE STAND

ELM STREET

DOGWOOD ELM CREEK CULVERT

W MUKILTEO BOULEVARD

296
294
298
SW
SW MH

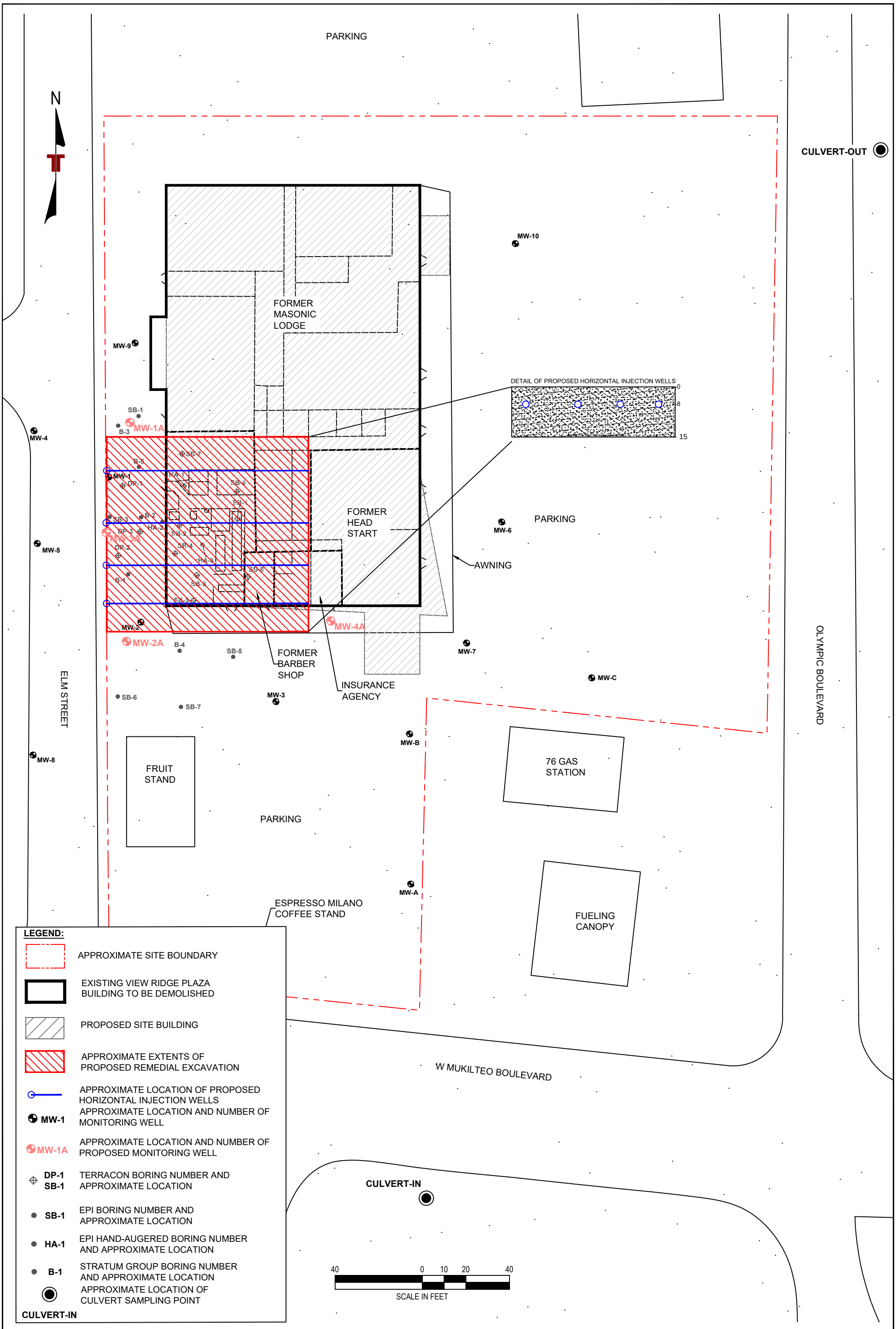
LEGEND:

- APPROXIMATE SITE BOUNDARY
- **MW-2 (297')** WELL APPROXIMATE LOCATION WITH GROUNDWATER ELEVATION (7/28/2020)
- 297 GROUNDWATER CONTOURS (FEET)
- GROUNDWATER FLOW DIRECTION

30 0 10 20 30
APPROXIMATE SCALE IN FEET

Project Mngr: MYW	Project No. 81197152	Terracon Consulting Engineers and Scientists	**GROUNDWATER FLOW AND GRADIENT MAP - JULY 2020**
Drawn By: JWD	Scale: AS SHOWN	21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043	VIEW RIDGE PLAZA
Checked By: KSB	File No. EXHIBIT 11	PH. (425) 771-3304 FAX. (425) 771-3549	220 OLYMPIC BOULEVARD
Approved By: MYW	Date: AUGUST 2020		EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 11



Project Mngr: MYW	Project No. P81207192	Terracon Consulting Engineers and Scientists	Prop. Remedial Excavation and Horizontal Iniection Wells
Drawn By: JWD	Scale: AS SHOWN	21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043	VIEW RIDGE PLAZA
Checked By: KSB	File No. EXHIBIT 1	PH. (425) 771-3304 FAX. (425) 771-3549	220 OLYMPIC BOULEVARD
Approved By: MYW	Date: MAY 2020		EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT 12

APPENDIX B – TABLES

TABLE 1

CUMULATIVE SUMMARY OF SOIL ANALYTICAL RESULTS
View Ridge Plaza
220 Olympic Boulevard
Everett, Snohomish County, Washington

all concentrations are in milligrams per kilogram (mg/kg)

Boring ID	Sample Number	Sample Date	Sample Depth (ft)	VOCs[1]								
				Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Cis-1,2- Dichloroethene (cis-DCE)	Trans-1,2- Dichloroethene (trans-DCE)	Vinyl Chrbride (VC)	1,1- Dichloroethene (1,1-DCE)	Toluene	Benzene	1,2-Dibromoethane (EDB)
MTCA Method A Cleanup Level for Unrestricted Land Use				**0.05**	**0.03**	**160***	**1,600***	**0.67***	**4,000***	**7**	**0.03**	**0.005**
MW-4	MW4-6	4/26/2019	6	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	--	--	ND (<0.005)
MW-5	MW5-6.5	4/26/2019	6.5	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	--	--	ND (<0.005)
MW-6	MW6-6	4/25/2019	6	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	--	--	ND (<0.005)
MW-7	MW7-12	4/25/2019	12	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	--	--	ND (<0.005)
MW-8	MW-8-4	6/5/2019	4	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	--	--	ND (<0.005)
MW-9	MW-9-10	6/5/2019	10	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	--	--	ND (<0.005)
MW-10	MW-10-12	6/5/2019	12	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	--	--	ND (<0.005)
DP-1	DP1-5'	9/16/2015	5	ND (<0.010)	ND (<0.010)	ND (<0.072)	ND (<0.066)	ND (<0.010)	ND (<0.010)	ND (<0.070)	ND (<0.005)	ND (<0.005)
DP-1A	DP1A-10'	9/16/2015	10	**0.050**	**0.030**	ND (<0.066)	ND (<0.061)	ND (<0.010)	ND (<0.010)	ND (<0.065)	ND (<0.005)	ND (<0.005)
DP-1	DP1-15'	9/16/2015	15	ND (<0.010)	ND (<0.010)	ND (<0.060)	ND (<0.055)	ND (<0.010)	ND (<0.010)	ND (<0.059)	ND (<0.005)	ND (<0.005)
DP-2	DP2-5'	9/16/2015	5	ND (<0.010)	ND (<0.010)	ND (<0.069)	ND (<0.063)	ND (<0.010)	ND (<0.010)	ND (<0.068)	ND (<0.005)	ND (<0.005)
	DP2-10'	9/16/2015	10	ND (<0.010)	ND (<0.010)	ND (<0.069)	ND (<0.063)	ND (<0.010)	ND (<0.010)	ND (<0.067)	ND (<0.005)	ND (<0.005)
	DP2-15'	9/16/2015	15	ND (<0.010)	ND (<0.010)	ND (<0.067)	ND (<0.061)	ND (<0.010)	ND (<0.010)	ND (<0.066)	ND (<0.005)	ND (<0.005)
DP-3	DP3-5'	9/16/2015	5	ND (<0.010)	ND (<0.010)	ND (<0.063)	ND (<0.058)	**0.16**	ND (<0.010)	ND (<0.062)	ND (<0.005)	ND (<0.005)
	DP3-8'	9/16/2015	8	**25**	**1.3**	**1.7**	ND (<0.063)	**0.080**	ND (<0.010)	ND (<0.067)	ND (<0.005)	ND (<0.005)
	DP3-11.5'	9/16/2015	11.5	**140**	**4.4**	**1.4**	ND (<0.061)	**0.073**	**0.014**	ND (<0.065)	ND (<0.005)	ND (<0.005)
	DP3-13'	9/16/2015	13	**160**	**6.7**	**1.3**	ND (<0.071)	**0.052**	**0.045**	ND (<0.076)	ND (<0.005)	ND (<0.005)
	DP3-14.5'	9/16/2015	14.5	**0.12**	**0.015**	ND (<0.067)	ND (0.061)	ND (<0.010)	ND (<0.010)	ND (<0.066)	**0.0060**	**0.011**
	DP3-20'	9/16/2015	20	**0.025**	ND (<0.010)	ND (<0.067)	ND (<0.061)	ND (<0.010)	ND (<0.010)	ND (<0.066)	ND (<0.005)	ND (<0.005)
	DP3-24'	9/16/2015	24	ND (<0.010)	ND (<0.010)	ND (<0.076)	ND (<0.070)	ND (<0.010)	ND (<0.010)	ND (<0.075)	ND (<0.005)	ND (<0.005)
SB-1	SB-1 S-1@1-1.5'	9/16/2015	1	**6.3**	**0.31**	**0.58**	ND (<0.043)	ND (<0.010)	ND (<0.010)	ND (<0.046)	ND (<0.005)	ND (<0.005)
	SB-1 S-2@3.5-4.5'	9/16/2015	3.5	**2.6**	**0.24**	**97**	**2.4**	**0.13**	**0.37**	ND (<0.56)	ND (<0.018)	ND (<0.018)
	SB-1 S-3@5.5-6'	9/16/2015	5.5	**0.30**	**0.035**	**35**	**0.60**	**0.041**	**0.040**	ND (<0.064)	**0.0081**	ND (<0.005)
	SB-1 S-4@7.5-8'	9/16/2015	7.5	**0.64**	**0.068**	**130**	**4.8**	**1.6**[F3]	**0.32**	**0.43**	**0.043**	ND (<0.005)
	SB-1 S-6@12-12.5'	9/16/2015	12	**0.035**	**0.27**	**5.1**	**0.21**	**0.014**	ND (<0.010)	ND (<0.070)	ND (<0.005)	ND (<0.005)
	SB-1 S-7@15-15.5'	9/16/2015	15	**0.066**	**0.25**	**4.0**	**0.15**	**0.045**[F3]	ND (<0.010)	ND (<0.061)	ND (<0.005)	ND (<0.005)
SB-2	SB-2 S-1@1-1.5'	9/16/2015	1	**3.3**	**0.22**	**0.38**	ND (<0.062)	ND (<0.010)	ND (<0.010)	ND (<0.066)	ND (<0.005)	ND (<0.005)
	SB-2 S-2@3-3.5'	9/16/2015	3	**2.1**	**0.63**	**0.25**	ND (<0.051)	**0.11**	ND (<0.010)	ND (<0.055)	ND (<0.005)	ND (<0.005)
	SB-2 S-4@10-10.5'	9/16/2015	10	**1.2**	**0.10**	**0.15**	ND (<0.054)	ND (<0.010)	ND (<0.010)	ND (<0.057)	ND (<0.010)	ND (0.010)
	SB-2 S-5@13-13.5'	9/16/2015	13	**130**	**9.4**	**22**	ND (<0.010)	**0.022**	ND (<0.010)	ND (<0.010)	ND (<0.005)	ND (<0.005)
	SB-2 S-6@15-15.5'	9/16/2015	15	**1.1**	**6.1**	**26**	**0.28**	**0.96**	**0.031**	ND (<0.066)	ND (<0.005)	ND (<0.005)
	SB-2 S-8@19-19.5'	9/16/2015	19	ND (<0.010)	ND (<0.010)	ND (<0.068)	ND (<0.062)	ND (<0.010)	ND (<0.010)	ND (<0.066)	ND (<0.005)	ND (<0.005)
	SB-2 S-9@23.5-24'	9/16/2015	23.5	ND (<0.010)	ND (<0.010)	ND (<0.064)	ND (<0.059)	ND (<0.010)	ND (<0.010)	ND (<0.063)	ND (<0.005)	ND (<0.005)
SB-3	SB-3 S-1@2-2.5'	9/16/2015	2	**4.4**	**0.38**	**0.64**	ND (<0.064)	ND (<0.010)	ND (<0.010)	ND (<0.069)	ND (<0.005)	ND (<0.005)
	SB-3 S-2@2.5-3'	9/16/2015	2.5	**8,400**	**140**	**32**	ND (<5.0)	ND (<0.22)	ND (<0.22)	ND (<5.4)	ND (<0.17)	ND (<0.17)
	SB-3 S-3@4.5-5'	9/16/2015	4.5	**330**	**51**	**42**	ND (<0.55)	**0.014**	ND (<0.010)	ND (<0.010)	ND (<0.005)	ND (<0.005)
	SB-3 S-4@10-10.5'	9/16/2015	10	**0.15**	**0.022**	**0.57**	ND (<0.050)	**0.33**	ND (<0.010)	ND (<0.053)	ND (<0.010)	ND (<0.010)
	SB-3 S-6@14.5-15'	9/16/2015	14.5	**3.0**	**3.3**	**19**	**0.28**	**3.9**	**0.033**	ND (<0.067)	ND (<0.005)	ND (<0.005)
	SB-3 S-7@15.5-16'	9/16/2015	15.5	**0.78**	**0.047**	**0.83**	ND (<0.060)	**1.1**	ND (<0.010)	ND (<0.065)	ND (<0.005)	ND (<0.005)
	SB-3 S-8@19.5-20'	9/16/2015	19.5	**0.064**	ND (<0.010)	ND (<0.076)	ND (<0.070)	ND (<0.010)	ND (<0.010)	ND (<0.074)	ND (<0.005)	ND (<0.005)
	SB-3 S-9@22.5-23'	9/16/2015	22.5	**0.16**	**0.014**	ND (<0.062)	ND (<0.057)	ND (<0.010)	ND (<0.010)	ND (<0.061)	ND (<0.005)	ND (<0.005)
SB-4	SB-4 S-1@1-1.5'	9/16/2015	1	**15**	**0.95**	**1.4**	ND (<0.049)	ND (<0.010)	ND (<0.010)	ND (<0.052)	ND (<0.005)	ND (<0.005)
	SB-4 S-2@4.5-5'	9/16/2015	4.5	**7.8**	**60**	**11**	ND (<0.010)	**0.025**	ND (<0.010)	ND (<0.010)	ND (<0.005)	ND (<0.005)
	SB-4 S-3@9.5-10'	9/16/2015	9.5	ND (<0.010)	**0.031**	**7.8**	ND <0.010	**2.4**	ND (<0.010)	ND (<0.010)	ND <0.0050	ND (<0.005)
SB-5	SB-5 S-1@1-2'	9/16/2015	1	**0.050**	**0.024**	**0.56**	ND (<0.057)	**0.10**	ND (<0.010)	**0.10**	ND (<0.010)	ND (<0.010)
	SB-5 S-2@4-4.5'	9/16/2015	4	ND (<0.010)	ND (<0.010)	**0.78**	**0.14**	**0.26**	ND (<0.010)	ND (<0.060)	ND (<0.005)	ND (<0.005)
SB-6	SB-6 S-1@1-2'	9/17/2015	1	**0.026**	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.005)	ND (<0.005)
	SB-6 S-2@4-5'	9/17/2015	4	ND (<0.010)	ND (<0.010)	**1.1**	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.005)	ND (<0.005)
SB-7	SB-7 S-1@1-2'	9/17/2015	1	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.005)	ND (<0.005)
	SB-7 S-2@4-5'	9/17/2015	4	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.005)	ND (<0.005)
SB-8	SB-8 S-1@1-2'	9/17/2015	1	**0.012**	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.010)	ND (<0.005)	ND (<0.005)
	SB-8 S-2@4-5'	9/17/2015	4	**0.047**	**0.020**	**5.2**	**0.25**	**0.036**	ND (<0.010)	ND (0.057)	ND (<0.005)	ND (<0.005)
Environmental Partners Inc./Stratum Group Historical Soil Analytical Results												
B1	B1-4	10/23/2013	4	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
B2	B2-9	10/23/2013	9	**0.630**	**0.014**	**0.014**	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	B2-20	10/23/2013	20	**0.022**	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
B3	B3-5	10/23/2013	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	B3-13	10/23/2013	13	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
B4	B4-7	10/23/2013	7	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
SB-1	SB-1:5	10/15/2014	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-1:10	10/15/2014	10	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-1:15	10/15/2014	15	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
SB-2	SB-2:2	10/15/2014	2	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-2:5	10/15/2014	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-2:10	10/15/2014	10	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
SB-3	SB-3:2	10/15/2014	2	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-3:5	10/15/2014	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-3:15	10/15/2014	15	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
SB-4	SB-4:5	10/15/2014	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-4:8	10/15/2014	8	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-4:14	10/15/2014	14	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
SB-5	SB-5:5	10/15/2014	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-5:10	10/15/2014	10	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-5:15	10/15/2014	15	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
SB-6	SB-6:5	10/15/2014	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-6:13	10/15/2014	13	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
SB-7	SB-7:5	10/15/2014	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-7:8	10/15/2014	8	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-7:15	10/15/2014	15	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
SB-8	SB-8:5	10/15/2014	5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-8:9	10/15/2014	9	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	SB-8:15	10/15/2014	15	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
HA-1	HA-1:1	10/24/2014	1	**4.8**	**0.054**	**0.093**	ND (<0.045)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	HA-1:4	10/24/2014	4	**0.250**	**0.063**	**14**	**0.160**	**0.710**	**0.028**	--	--	ND (<0.005)
HA-2	HA-2:1	10/24/2014	1	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	HA-2:4.5	10/24/2014	4.5	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
HA-3	HA-3:0.5	10/24/2014	0.5	**1.6**	**0.200**	**0.420**	ND (<0.044)	ND (<0.01)	ND (<0.01)	--	--	ND (<0.005)
	HA-3:4	10/24/2014	4	**0.068**	**0.028**	**15.0**	**0.330**	**0.320**	**0.041**	--	--	ND (<0.005)

Note: Values detected above laboratory method reporting limits (MRLs) are in **BOLD** type.
Values detected above MTCA cleanup levels are in red **BOLD** and shaded.
Compounds for which no cleanup level has been established are not included in this table.

VOCs - Volatile organic compounds
MTCA - Model Toxics Control Act
ND - Not detected above laboratory reporting limit.
* - MTCA Method B Cleanup Level
1 - See laboratory report for full list of analytes.
F3 - Analyte results biased high due to coeluting compound

TABLE 2

CUMULATIVE SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

View Ridge Plaza

220 Olympic Boulevard

Everett, Snohomish County, Washington

All concentrations are in micrograms per liter (µg/L)

Well ID (Top of Casing Elevation [feet])	Sample Date	Depth to Water (feet)	Ground-water Elevation (feet)	VOCs[1]					
				Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Cis-1,2- Dichloroethylene (cis-DCE)	Trans-1,2- Dichloroethylene (trans-DCE)	Vinyl Chrloride (VC)	1,1- Dichloroethene (1,1-DCE)
MTCA Method A Cleanup Level				**5**	**5**	**16***	**160***	**0.20**	**400***
MW-1 (301.76)	10/24/14	4.89[#]	296.87	ND (<2.0)	ND (<2.0)	**8.7**	ND (<2.0)	**0.33**	ND (<2.0)
	9/3/15	5.46	296.30	ND (<2.0)	ND (<2.0)	**3.8**	ND (<2.0)	**0.66**	ND (<2.0)
	4/29/19	4.91	296.85	**2.2**	ND (<2.0)	**2.4**	ND (<2.0)	**0.26**	ND (<2.0)
	6/13/19	5.09	296.67	--	--	--	--	--	--
	7/28/20	5.30	296.46	ND (<2.0)	ND (<2.0)	**3.1**	ND (<2.0)	**0.25**	ND (<2.0)
MW-2 (301.75)	10/24/14	4.50[#]	297.25	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	9/3/15	4.49	297.26	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	4/29/19	4.58	297.17	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	6/13/19	4.86	296.89	--	--	--	--	--	--
	7/28/20	5.25	296.50	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
MW-3 (301.41)	10/24/14	8.95[#]	292.46	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	9/3/15	9.24	292.17	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	4/29/19	8.86	292.55	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	6/13/19	8.95	292.46	--	--	--	--	--	--
	7/28/20	8.93	292.48	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
MW-4 (300.66)	4/29/19	2.69	297.97	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	6/13/19	3.11	297.55	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	7/28/20	3.07	297.59	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
MW-5 (300.74)	6/13/19	3.17	297.57	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	7/28/20	4.19	297.57	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
MW-6 (302.18)	4/29/19	9.29	292.89	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	6/13/19	9.35	292.83	--	--	--	--	--	--
	7/28/20	9.31	292.87	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)

MW-7 is dry

TABLE 2

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View Ridge Plaza
220 Olympic Boulevard
Everett, Snohomish County, Washington

All concentrations are in micrograms per liter (µg/L)

Well ID (Top of Casing Elevation [feet])	Sample Date	Depth to Water (feet)	Ground-water Elevation (feet)	VOCs[1]					
				Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Cis-1,2- Dichloroethylene (cis-DCE)	Trans-1,2- Dichloroethylene (trans-DCE)	Vinyl Chrloride (VC)	1,1- Dichloroethene (1,1-DCE)
MTCA Method A Cleanup Level				**5**	**5**	**16***	**160***	**0.20**	**400***
MW-8 (299.83)	6/13/19	2.71	297.12	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	7/28/20	3.04	296.79	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
MW-9 (301.69)	6/13/19	5.30	296.39	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	7/28/20	5.26	296.43	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
MW-10 (302.48)	6/13/19	5.42	297.06	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	7/28/20	5.41	297.07	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
MW-A (304.58)	10/24/13	4.53	300.05	--	--	--	--	--	--
	8/18/14	9.76[#]	294.82	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	9/3/15	10.39	294.19	--	--	--	--	--	--
	4/29/19	9.68	294.90	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	6/13/19	10.00	294.58	--	--	--	--	--	--
	7/28/20	10.03	294.55	--	--	--	--	--	--
MW-B (302.97)	10/24/13	8.65	294.32	--	--	--	--	--	--
	8/18/14	7.32[#]	295.65	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	9/3/15	8.60	294.37	--	--	--	--	--	--
	4/29/19	7.15	295.82	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	7/28/20	7.75	295.22	--	--	--	--	--	--
MW-C (307.89)	10/24/13	10.35	297.54	--	--	--	--	--	--
	8/18/14	3.28[#]	304.61	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	9/3/15	4.20	303.69	--	--	--	--	--	--
	4/29/19	3.18	304.71	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
	6/13/19	3.45	304.44	--	--	--	--	--	--
	7/28/20	3.64	304.25	--	--	--	--	--	--

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Well ID (Top of Casing Elevation [feet])	Sample Date	Depth to Water (feet)	Ground-water Elevation (feet)	VOCs[1]					
				Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Cis-1,2- Dichloroethylene (cis-DCE)	Trans-1,2- Dichloroethylene (trans-DCE)	Vinyl Chrloride (VC)	1,1- Dichloroethene (1,1-DCE)
MTCA Method A Cleanup Level				**5**	**5**	**16***	**160***	**0.20**	**400***
Temporary Groundwater Monitoring Wells - Environmental Partners Inc & Stratum Group									
B-1	10/24/13	--	--	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	**0.67**	ND (<2.0)
B-4	10/24/13	--	--	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	**0.98**	ND (<2.0)
B-5	10/24/13	--	--	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	**0.28**	ND (<2.0)
SB-1	10/15/14	--	--	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
SB-3	10/15/14	--	--	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
SB-6	10/15/14	--	--	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
Temporary Groundwater Monitoring Wells - Terracon									
SB-1	9/17/15	--	--	ND (<500)^	ND (<500)^	**13,000**	ND (<500)^	**830**	ND (<500)^
SB-2	9/17/15	--	--	ND (<200)^	**340**	**3,600**	**29**	**240**	**6.9**
SB-3	9/17/15	--	--	**24,000**	**2,100**	**4,700**	ND (<200)^	**750**	**13**
DP1	9/17/15	--	--	**330**	**42**	**54**	ND (<2.0)	**2.8**	ND (<2.0)
DP2	9/17/15	--	--	**21**	**3.0**	**4.6**	ND (<2.0)	**0.46**	ND (<2.0)
DP3	9/17/15	--	--	**13,000**	**870**	**1,100**	**3.0**	**66**	**7.1**
Dogwood Elm Creek Water									
Culvert In	6/5/19	--	--	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)
Culvert Out	6/5/19	--	--	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.20)	ND (<2.0)

Note: Concentrations detected above laboratory reporting limits are in **BOLD** type.
Concentrations above MTCA cleanup levels are in **BOLD RED** type and a shaded cell.
Compounds for which no cleanup level has been established are not included in this table.

VOCs - Volatile organic compounds
MTCA - Model Toxics Control Act
MRL - Laboratory method reporting limit
ND - Not detected above laboratory reporting limits.
-- - Not analyzed
* - MTCA Method B Cleanup Level
# - Groundwater monitoring well gauged on November 10, 2014
^ - Laboratory MRL is above the MTCA cleanup level
1 - See laboratory report for full list of analytes.

Table 3. Site Specific Remedial Action Technology Screening

			Effectiveness	Long-Term Reliability	Implementability	Implementation Risk	Cost	Screening Comments	Retained For Further Consideration
Institutional Controls	Environmental Covenant	Implement a deed restriction to restrict excavation of contaminated soils and the use of groundwater	Effective if used as an element of an overall cleanup action plan	Low	Low	Low	Low	Does not address soil and groundwater impacts. Relies upon regulatory approval of environmental covenant.	**Yes**
In – Situ Treatment	Monitored Natural Attenuation	Using natural processes to reduce contaminant levels to acceptable concentrations.	Presence of elevated concentrations on the groundwater table suggests natural attenuation would be minimally effective.	Moderate	Low	Low	Low	Requires no additional treatment. Costs are for longer term monitoring. May allow contamination to migrate elsewhere on the site or off-site. Retained as a potential component of other cleanup actions. May not address potential exposure pathways during redevelopment.	No
	Chemical Reduction/Anaerobic Biodegradataion	Addition of activated carbon, sulfate reduction media, micronutrients, and microbes to absorb and degrade contaminants in soil and groundwater	Can be an effective method of degrading various forms of cVOCs present on or in soil and groundwater. May be applied as a barrier wall	High	Moderate	Low	Moderate	Does not rely on the presence of microbial populations in the subsurface Would continue degradation of impacted groundwater as plume migrated through treated area. Can function in both aerobic and anaerobic environments.	**Yes**
	Chemical Oxidation	Chemical oxidation involves the injection of reactive chemical oxidants into groundwater and/or soil for the primary purpose of rapid contaminant destruction	Can be a very effective method of degrading various contaminants present on or in groundwater.	High	Moderate	Moderate	Moderate	Highly corrosive oxidants may react with unwanted surface or subsurface features Chemical oxidation by-products and off-gassing may corrode subsurface features (utilities, hoists, etc.) Oxidation is non-selective and may interact with organic matter in the subsurface (e.g. peat)	No
	Combined Soil Vapor Extraction/Air Sparging	Volatile components are stripped from groundwater with air. Volatile components are subsequently extracted from the vadose zone via an applied vacuum.	Can be an effective method of removing various forms of cVOCs.	Moderate	Difficult	Moderate	High	Heterogeneities in the aquifer may not allow for air to reach all contaminated groundwater. Requires surface or subsurface appurtenances at the site.	No
Ex-Situ Treatment	Dual-Phase Extraction	A high vacuum system is applied to simultaneously remove contaminated ground water and volatile components from the subsurface.	Can be effective for dissolved contamination.	Low	Difficult	Low	High	Requires construction of a water and vapor treatment system or disposal option. Requires continued operation of system. Does not address soil or groundwater impacts in inaccessible areas.	No
	Pump & Treat	Pump contaminated groundwater and treat at the surface.	Effective for groundwater removal in local area, but not soil source areas	Low	Difficult	Low	High	Requires construction of a water treatment system or disposal option. Requires surface or subsurface appurtenances in the treatment area. Does not address contamination in inaccessible areas.	No
Remedial Excavation and Remedial Backfill Amendment	Remedial Excavation	Remediation by excavation, source removal of contaminated soil and dispose off-site. Backfill with remedial amendment chemical treatment in the saturated zone to further degrade residual groundwater contamination, if any.	Effective for soil source removal and groundwater. Effective at further attenuating post remediation residual groundwater contamination, if any.	High	Moderate	Low	Moderate	Source removal of soil contamination and increased biodegradation of residual groundwater contamination, if any. Requires costly shoring and excavation logistics.	**Yes**

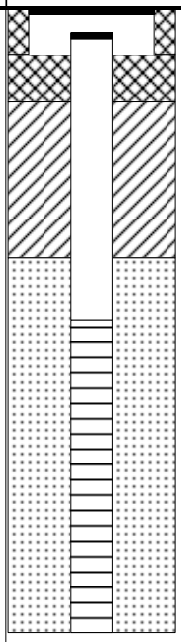
APPENDIX C – BORING AND WELL LOGS

ENVIRONMENTAL PARTNERS INC

BORING ID: SB-2/MW-1

SITE ADDRESS: **220 Olympic Blvd. Everett, WA**	CLIENT: **Pivitol Solutions**	CASING MATERIAL AND SIZE: **3/4" PVC**
DRILLING CONTRACTOR: **Cascade Drilling Inc.**	PROJECT #: **67001**	SCREEN SIZE: **0.010"**
DRILLING EQUIPMENT: **Geoprobe 6600 Truck**	DATE: **10/15/14**	SCREEN INTERVAL: **5'-10'**
DRILLING METHOD: **Direct-Push Technology**	GROUND SURFACE ELEV. FT AMSL:	FILTER PACK: **10-20 Sand**
LOGGED BY: **M. Busbee** / BOREHOLE SIZE: **2"**	TOTAL DEPTH: **10'**	FILTER PACK INTERVAL: **4'-10'**

Depth (feet)	USCS	Description (USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other)	Interval & % Recovery	PID (ppm)	Sample
0	SW	WELL-GRADED SAND WITH GRAVEL; brown; dry; mostly fine-medium sand with some fine gravel; moist at 3.5'; slight odor	70	0	SB-2:2
4	ML	SILT; gray; moist; silt; slight odor;		0	SB-2:5
5	GM	SILTY GRAVEL; gray; wet; fine gravel with some silt; no odor	100		
6	SP	POORLY-GRADED SAND; gray; wet; fine sand with minor silt			
9	ML	SILT; brown; dry; silt		0	SB-2:10
10		End of Borehole			



NOTES:

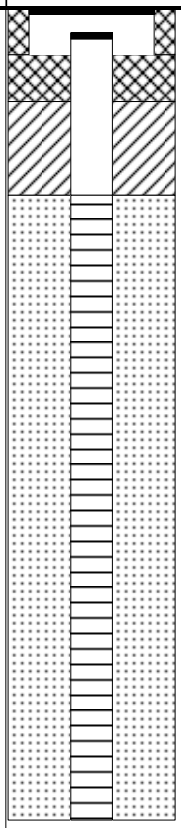
ENVIRONMENTAL PARTNERS INC

BORING ID: SB-4/MW-2

SITE ADDRESS: **220 Olympic Blvd. Everett, WA**	CLIENT: **Pivitol Solutions**	CASING MATERIAL AND SIZE: **3/4" PVC**
DRILLING CONTRACTOR: **Cascade Drilling Inc.**	PROJECT #: **67001**	SCREEN SIZE: **0.010"**
DRILLING EQUIPMENT: **Geoprobe 6600 Truck**	DATE: **10/15/14**	SCREEN INTERVAL: **3'-13'**
DRILLING METHOD: **Direct-Push Technology**	GROUND SURFACE ELEV. FT AMSL:	FILTER PACK: **10-20 Sand**
LOGGED BY: **M. Busbee** / BOREHOLE SIZE: **2"**	TOTAL DEPTH: **13'**	FILTER PACK INTERVAL: **3'-13'**

Depth (feet)	USCS	Description (USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other)	Interval & % Recovery	PID (ppm)	Sample
0		Gravel Fill; dry; no odor			
2	ML	GRAVELLY SILT; gray; dry; mostly silt with some fine gravel	80	0	
4	ML	SILT; gray; dry; mostly silt		0	SB-4:5
6			100		
8	SW	WELL-GRADED SAND; gray; wet; fine-medium sand with minor silt; no odor			SB-4:8
10				0	
12	ML	SILT; gray; dry silt; no odor	100		
14		End of Borehole		0	SB-4:14
16					
18					
20					

Well Construction



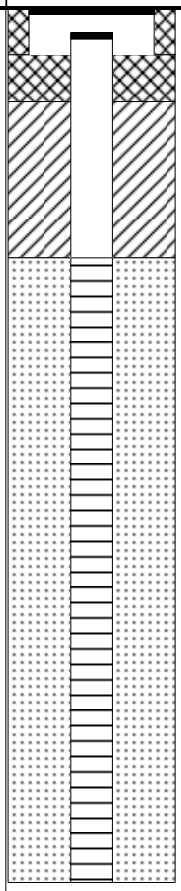
NOTES:

ENVIRONMENTAL PARTNERS INC

BORING ID: SB-8/MW-3

SITE ADDRESS: **220 Olympic Blvd. Everett, WA**	CLIENT: **Pivitol Solutions**	CASING MATERIAL AND SIZE: **3/4" PCV**
DRILLING CONTRACTOR: **Cascade Drilling Inc.**	PROJECT #: **67001**	SCREEN SIZE: **0.010"**
DRILLING EQUIPMENT: **Geoprobe 6600 Truck**	DATE: **10/15/14**	SCREEN INTERVAL: **4'-15'**
DRILLING METHOD: **Direct-Push Technology**	GROUND SURFACE ELEV. FT AMSL:	FILTER PACK: **10-20 Sand**
LOGGED BY: **M. Busbee** / BOREHOLE SIZE: **2"**	TOTAL DEPTH: **15'**	FILTER PACK INTERVAL: **3.5'-15'**

Depth (feet)	USCS	Description (USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other)	Interval & % Recovery	PID (ppm)	Sample
0	GP	Gravel			
2	ML	SANDY SILT; gray; dry; mostly silt with some fine sand; wet at 9.5'	70	0	
4				0	SB-8:5
6			60		
8				0	SB-8:9
10	SM	SILTY SAND; gray; wet; mostly fine sand with some silt; slight petroleum odor	100		
12					
14	ML	SILT; gray; dry; silt; no odor		0	SB-8:15
		End of Borehole			
16					
18					
20					



NOTES: Slight sheen on water: Reported by driller

WELL LOG NO. MW-4

PROJECT: 220 Olympic

CLIENT: Catalyst Capitol
Washington, D.C.

SITE: 220 Olympic Blvd
Everett, WA

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION
0.3	**ASPHALT**
0.5	**AGGREGATE BASE COURSE**
1.0	**TOPSOIL**
2.3	**SAND (SP)**, gray
	SILT (ML), tan and orange
	higher sand content
10.0	**CLAY (CL)**, gray, light gray laminations
20.0	***Boring Terminated at 20 Feet***

INSTALLATION DETAILS

Well Completion: Monument

- Well monument
- Blank 2" PVC pipe with bentonite seal
- Slotted 2" PVC pipe with sand filter pack
- Bentonite
- Slough

DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	▽		0.6	
5			0.7	MW4-6
			0.6	
10			0.4	MW4-12
			0.5	
15				
			0.2	
20				

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
Direct push

Abandonment Method:

Notes:
Well # BLN 788

WATER LEVEL OBSERVATIONS

▽ *measured after setting and developing well*

Terracon
21905 64th Ave W, Ste 100
Mountlake Terrace, WA

Well Started: 04-26-2019	Well Completed: 04-26-2019
Drill Rig: Geoprobe 3230DT	Driller: AEC
Project No.: 81197152	Exhibit: MW-1

WELL LOG NO. MW-5

PROJECT: 220 Olympic

CLIENT: Catalyst Capitol
Washington, D.C.

SITE: 220 Olympic Blvd
Everett, WA

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	INSTALLATION DETAILS (Well Completion: Monument)	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
0.3	**ASPHALT**	Well monument					
1.0	**TOPSOIL**						
	SAND (SP), gray	Blank 2" PVC pipe with bentonite seal				1.1	
2.3	**SILT (ML)**, tan and orange			▽		0.4	
			5				
						1.0	MW5-6.5
6.5	**CLAY (CL)**, gray, light gray laminations					1.1	MW5-9
		Slotted 2" PVC pipe with sand filter pack	10				
						0.3	
			15				
						0.8	
19.8		Bentonite					
20.0	**SILT (ML)**, tan		20			0.3	
	Boring Terminated at 20 Feet						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
Direct push

Abandonment Method:

Notes:
Well # BLN 789

WATER LEVEL OBSERVATIONS

▽ *measured after setting and developing well*

Terracon
21905 64th Ave W, Ste 100
Mountlake Terrace, WA

Well Started: 04-26-2019	Well Completed: 04-26-2019
Drill Rig: Geoprobe 3230DT	Driller: AEC
Project No.: 81197152	Exhibit: MW-2

WELL LOG NO. MW-6

PROJECT: 220 Olympic

CLIENT: Catalyst Capitol
Washington, D.C.

SITE: 220 Olympic Blvd
Everett, WA

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	INSTALLATION DETAILS (Well Completion: Monument)	OVA/PID (ppm)	SAMPLE NUMBER
0.3	**ASPHALT**	Well monument		
0.5	**AGGREGATE BASE COURSE**		0.4	
	SILT (ML), gray			
2.3	**SAND (SW)**, tan	Blank 2" PVC pipe with bentonite seal	0.3	
	gray, with wood		0.6	MW6-6
	wet, some wood	Slotted 2" PVC pipe with sand filter pack	0.5	
11.5	**CLAY (CL)**, tan and orange		0.5	MW6-13
	gray		0.5	
		Bentonite	0.6	
20.0	***Boring Terminated at 20 Feet***			

DEPTH (ft): 5, 10, 15, 20

WATER LEVEL OBSERVATIONS

SAMPLE TYPE

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
Direct push

Abandonment Method:

Notes:
Well # BLN 790

WATER LEVEL OBSERVATIONS

▽ *water-bearing soil*

▽ *measured after setting and developing well*

Terracon
21905 64th Ave W, Ste 100
Mountlake Terrace, WA

Well Started: 04-25-2019 | Well Completed: 04-25-2019

Drill Rig: Geoprobe 3230DT | Driller: AEC

Project No.: 81197152 | Exhibit: MW-3

WELL LOG NO. MW-7

PROJECT: 220 Olympic

CLIENT: Catalyst Capitol
Washington, D.C.

SITE: 220 Olympic Blvd
Everett, WA

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
0.3	**ASPHALT**	Well Completion: Monument					
0.5	**AGGREGATE BASE COURSE**						
0.8	**SILT (ML)**, gray	Well monument				1.1	
	SAND (SP), gray and tan						
5.0			5			0.9	
	CLAY (CL), green						
	tan					0.8	
10.0			10				
	SANDY LEAN CLAY (CL), gray and green, wet						
11.0							
	CLAY (CL), tan					0.2	MW7-12
	gray					0.3	
		Blank 2" PVC pipe with bentonite seal	15				
						1.8	
			20				
	light gray laminations					0.9	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
Direct push and auger

Abandonment Method:

Notes:
Well # BLN 791

WATER LEVEL OBSERVATIONS
Groundwater not encountered

Terracon
21905 64th Ave W, Ste 100
Mountlake Terrace, WA

Well Started: 04-25-2019 | Well Completed: 04-25-2019
Drill Rig: Geoprobe 3230DT | Driller: AEC
Project No.: 81197152 | Exhibit: MW-4

WELL LOG NO. MW-7

PROJECT: 220 Olympic

CLIENT: Catalyst Capitol
Washington, D.C.

SITE: 220 Olympic Blvd
Everett, WA

GRAPHIC LOG	DEPTH	MATERIAL DESCRIPTION	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
		LOCATION See Exhibit 2					
		CLAY (CL), tan *(continued)*					
		tan				2.6	
	26.3	**SAND (SW)**, tan				0.8	
		2-inch tan silt lens				0.4	
	30.0	**SILT (ML)**, tan				0.3	
		gray					
	31.5	increasing sand content					
		SAND WITH GRAVEL (SW), tan				0.2	
		increasing gravel content					
		decreasing gravel content					
	44.0	**CLAY (CL)**, tan, laminated				0.3	MW7-45
	45.0	***Boring Terminated at 45 Feet***					

Slotted 2" PVC pipe with sand filter pack

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
Direct push and auger

Abandonment Method:

Notes:

WATER LEVEL OBSERVATIONS

Groundwater not encountered

Terracon
21905 64th Ave W, Ste 100
Mountlake Terrace, WA

Well Started: 04-25-2019	Well Completed: 04-25-2019
Drill Rig: Geoprobe 3230DT	Driller: AEC
Project No.: 81197152	Exhibit: MW-5

WELL LOG NO. MW-8

PROJECT: 220 Olympic

CLIENT: Catalyst Capitol
Washington, D.C.

SITE: 220 Olympic Blvd
Everett, WA

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION
0.3	**ASPHALT**
	SILT WITH SAND (ML), brown to gray, trace gravel
4.5	
	SAND WITH SILT (SP-SM), gray, fine to medium grained, wet
7.5	
	SILT (ML), gray
10.0	
	SAND (SP), dark gray, coarse grained
11.0	
	SILT (ML), gray
15.0	
	SAND WITH GRAVEL (SP), gray, wet
16.0	
	SILT (ML), gray
20.0	
	Boring Terminated at 20 Feet

INSTALLATION DETAILS

Well Completion: Monument

- Well monument
- Blank 2" PVC pipe with bentonite seal
- Slotted 2" PVC pipe with sand filter pack
- Slough

DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
5	▽		0.6	
			0.5	MW-8 -4
			0.9	
10			0.9	
			0.4	
15			1.0	
20				

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
Direct push

Abandonment Method:

Notes:

WATER LEVEL OBSERVATIONS

▽ *water-bearing soil*

Terracon
21905 64th Ave W, Ste 100
Mountlake Terrace, WA

Well Started: 06-05-2019
Well Completed: 06-05-2019
Drill Rig: Geoprobe 3230DT
Driller: AEC
Project No.: 81197152
Exhibit: MW-7

WELL LOG NO. MW-9

PROJECT: 220 Olympic

CLIENT: Catalyst Capitol
Washington, D.C.

SITE: 220 Olympic Blvd
Everett, WA

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION
0.3	**ASPHALT**
	SAND WITH GRAVEL (SP), brown, trace silt
3.0	
	SILT (ML), gray to brown, trace gravel, wet
7.0	
	SILTY SAND (SM), gray, wet
8.0	
	SILT (ML), gray with orange mottling
	becomes brown, 3" sandy silt with gravel
	6" sandy silt, wet
20.0	
	Boring Terminated at 20 Feet

INSTALLATION DETAILS

Well Completion: Monument

- Well monument
- Blank 2" PVC pipe with bentonite seal
- Slotted 2" PVC pipe with sand filter pack
- Slough

DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	▽		0.3	
5			0.4	
			0.7	
10			0.8	MW-9 -10
			0.8	
15			0.7	
			0.0	
20			0.6	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
Direct push

Abandonment Method:

Notes:

WATER LEVEL OBSERVATIONS

▽ *water-bearing soil*

Terracon
21905 64th Ave W, Ste 100
Mountlake Terrace, WA

Well Started: 06-05-2019	Well Completed: 06-05-2019
Drill Rig: Geoprobe 3230DT	Driller: AEC
Project No.: 81197152	Exhibit: MW-8

WELL LOG NO. MW-10

PROJECT: 220 Olympic

CLIENT: Catalyst Capitol
Washington, D.C.

SITE: 220 Olympic Blvd
Everett, WA

LOCATION See Exhibit 2

DEPTH	MATERIAL DESCRIPTION	OVA/PID (ppm)	SAMPLE NUMBER
0.3	**ASPHALT**		
	SANDY SILT (ML), orange to brown		
	orange mottling	0.6	
	trace gravel, becomes wet	0.8	
8.0		0.0	
	SILT (ML), gray		
	6" sandy silt, wet	0.4	
		0.9	MW-10 -12
		0.7	
		0.3	
20.0		0.7	
	Boring Terminated at 20 Feet		

INSTALLATION DETAILS

Well Completion: Monument

- Well monument
- Blank 2" PVC pipe with bentonite seal
- Slotted 2" PVC pipe with sand filter pack
- Slough

DEPTH (ft): 5, 10, 15, 20

WATER LEVEL OBSERVATIONS

SAMPLE TYPE

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method:
Direct push

Abandonment Method:

Notes:

WATER LEVEL OBSERVATIONS

▽ *water-bearing soil*

Terracon
21905 64th Ave W, Ste 100
Mountlake Terrace, WA

Well Started: 06-05-2019	Well Completed: 06-05-2019
Drill Rig: Geoprobe 3230DT	Driller: AEC
Project No.: 81197152	Exhibit: MW-1

ENTERED

29-4-36J

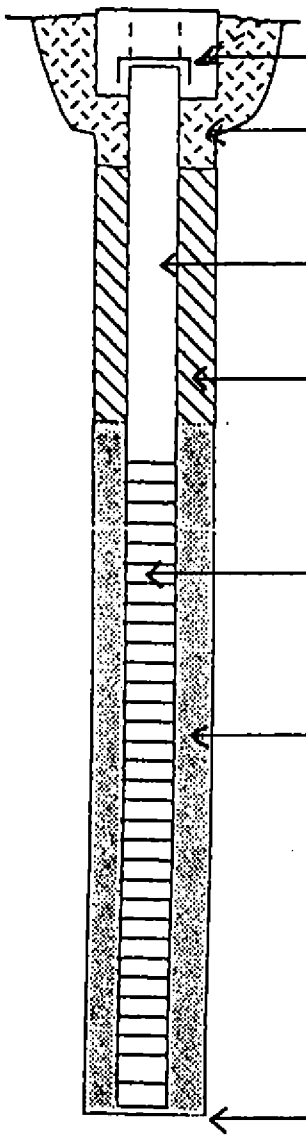
RESOURCE PROTECTION WELL REPORT

START CARD NO. R28468

PROJECT NAME: BP Station #11264
WELL IDENTIFICATION NO. ACS 652
DRILLING METHOD: HSA
DRILLER: Brent C. Maloy
FIRM: Cascade Drilling, Inc.
SIGNATURE:
CONSULTING FIRM: Secor
REPRESENTATIVE: John North

COUNTY: Snohomish
LOCATION: SE¼ NE¼ Sec 36 Twn 29N R 4E
STREET ADDRESS OF WELL: 301 Mukilteo Blvd, Everett
WATER LEVEL ELEVATION:
GROUND SURFACE ELEVATION: N/A
INSTALLED: 8-7-97
DEVELOPED:

7355

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER CONCRETE SURFACE SEAL DEPTH = 2 ft PVC BLANK 2"x 5' BACKFILL 2 ft. TYPE: BENT CHIPS PVC SCREEN 2"x 10' SLOT SIZE: .020 GRAVEL PACK 4 ft. MATERIAL: 2/12 LONESTAR WELL DEPTH 15' "	0 - 1 ft. GRAVEL BASE 1 - 7 ft. SILTY BROWN SAND 7 - 15 ft. GREY DENSE SILTY SAND

RECEIVED
SEP 02 1997
DEPT. OF ECOLOGY

SCALE: 1" = _____ PAGE _____ OF _____

ECY 050-12 (Rev. 11/89)

ENTERED

RESOURCE PROTECTION WELL REPORT 29/4/36J

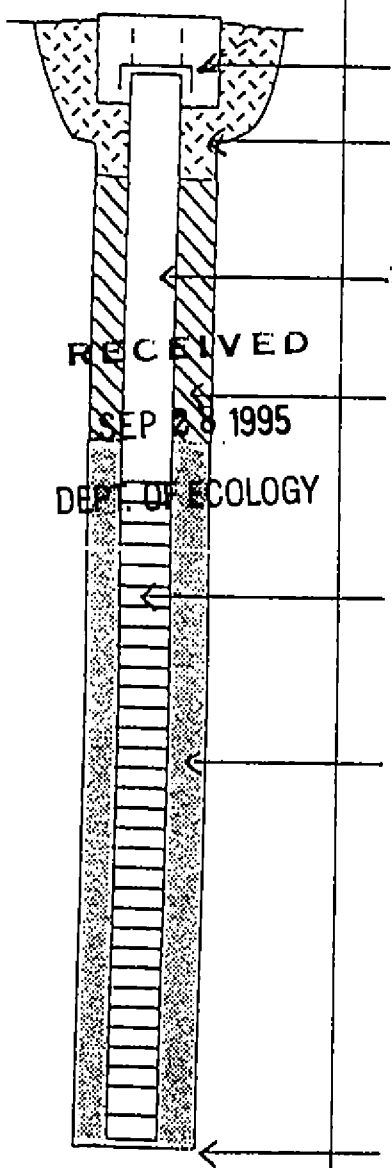
START CARD NO. R03461

PROJECT NAME: B.P. Station
WELL IDENTIFICATION NO. ACD 021
DRILLING METHOD: HSA
DRILLER: SCOTT KRUEGER
FIRM: Cascade Drilling, Inc.
SIGNATURE:
CONSULTING FIRM: SECOR
REPRESENTATIVE: JOHN GIEBER

COUNTY: SNOHOMISH
LOCATION: NE¼ SE¼ Sec 36 Twn 29N R 4E
STREET ADDRESS OF WELL:
301 MUKILTEO BLVD - EVERETT, WA
WATER LEVEL ELEVATION: 7
GROUND SURFACE ELEVATION: N/A
INSTALLED: 9-20-95
DEVELOPED: yes

5388

AS-BUILT



RECEIVED
SEP 28 1995
DEPT. OF ECOLOGY

WELL DATA

WELL COVER
CONCRETE SURFACE SEAL
DEPTH = 1/ft
PVC BLANK 2 "x 4'
BACKFILL 2 ft.
TYPE: Bent chips
PVC SCREEN 2 "x 11'
SLOT SIZE: .010
GRAVEL PACK 12 ft.
MATERIAL: 10/20 colo
WELL DEPTH 15'

FORMATION DESCRIPTION

0 - 11 ft.
brown silty clay, wood
11 - 15 ft.
brown silty Sand
- ft.

SCALE: 1" = _____ PAGE _____ OF _____

ECY 050-12 (Rev. 11/09)

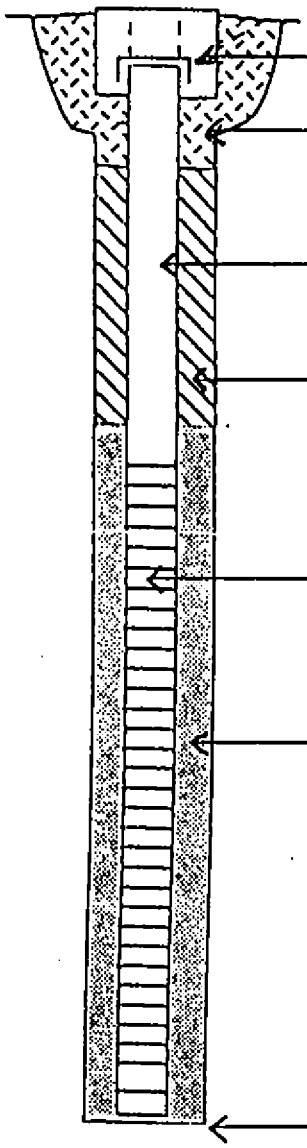
RESOURCE PROTECTION WELL REPORT

START CARD NO. R28468

PROJECT NAME: BP Station #11264
WELL IDENTIFICATION NO. ACS 653
DRILLING METHOD: HSA
DRILLER: Brent C. Maloy
FIRM: Cascade Drilling, Inc.
SIGNATURE:
CONSULTING FIRM: Secor
REPRESENTATIVE: John North

COUNTY: Snohomish
LOCATION: SE¼ NE¼ Sec 36 Twn 29N R 4E
STREET ADDRESS OF WELL: 301 Mukilteo Blvd, Everett
WATER LEVEL ELEVATION:
GROUND SURFACE ELEVATION: N/A
INSTALLED: 8-7-97
DEVELOPED:

7355

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	WELL COVER CONCRETE SURFACE SEAL DEPTH = 2/ft PVC BLANK 2"x 5' BACKFILL 2 ft. TYPE: BENT CHIPS PVC SCREEN 2"x 20' SLOT SIZE: .020 GRAVEL PACK 4 ft. MATERIAL: 2/12 LONESTAR WELL DEPTH 25' "	0 - 2 ft. GRAVEL BASE 2 - 10 ft. BROWN SILTY SAND 10 - 25 ft. GREY SILTY DENSE SAND

RECEIVED
SEP 02 1997
DEPT. OF ECOLOGY

SCALE: 1" = _____ PAGE _____ OF _____

ECY 050-12 (Rev. 11/09)

APPENDIX D – ANALYTICAL REPORTS

August 4, 2020

Mr. Matt Wheaton
Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

Dear Mr. Wheaton,

On July 28th, 9 samples were received by our laboratory and assigned our laboratory project number EV20070113. The project was identified as your 81197152. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-01
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 2:50:00 PM
CLIENT SAMPLE ID	MW1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	**0.25**	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	**3.1**	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-01
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 2:50:00 PM
CLIENT SAMPLE ID	MW1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**99.7**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**97.0**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-02
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 1:35:00 PM
CLIENT SAMPLE ID	MW2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-02
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 1:35:00 PM
CLIENT SAMPLE ID	MW2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**100**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**97.8**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-03
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 1:00:00 PM
CLIENT SAMPLE ID	MW3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-03
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 1:00:00 PM
CLIENT SAMPLE ID	MW3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**101**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**99.4**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-04
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 11:25:00 AM
CLIENT SAMPLE ID	MW4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-04
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 11:25:00 AM
CLIENT SAMPLE ID	MW4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**100**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**96.8**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-05
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 11:55:00 AM
CLIENT SAMPLE ID	MW5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-05
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 11:55:00 AM
CLIENT SAMPLE ID	MW5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**101**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**98.9**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-06
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 10:00:00 AM
CLIENT SAMPLE ID	MW6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-06
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 10:00:00 AM
CLIENT SAMPLE ID	MW6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**101**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**98.9**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-07
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 12:20:00 PM
CLIENT SAMPLE ID	MW8	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-07
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 12:20:00 PM
CLIENT SAMPLE ID	MW8	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**101**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**99.1**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-08
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 10:50:00 AM
CLIENT SAMPLE ID	MW9	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-08
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 10:50:00 AM
CLIENT SAMPLE ID	MW9	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**101**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**97.4**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-09
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 9:25:00 AM
CLIENT SAMPLE ID	MW10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	07/31/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	8/4/2020 EV20070113 EV20070113-09
CLIENT CONTACT:	Matt Wheaton	DATE RECEIVED:	07/28/2020
CLIENT PROJECT:	81197152	COLLECTION DATE:	7/28/2020 9:25:00 AM
CLIENT SAMPLE ID	MW10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	07/31/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**101**	07/31/2020	DLC
4-Bromofluorobenzene	EPA-8260	**98.2**	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Matt Wheaton
CLIENT PROJECT: 81197152

DATE: 8/4/2020
ALS SDG#: EV20070113
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-073120W - Batch 156003 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	07/31/2020	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	07/31/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Chloroform	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Toluene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	07/31/2020	DLC
Chlorobenzene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Bromoform	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	8/4/2020
		ALS SDG#:	EV20070113
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Matt Wheaton		
CLIENT PROJECT:	81197152		

LABORATORY BLANK RESULTS

MB-073120W - Batch 156003 - Water by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	07/31/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	07/31/2020	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043
CLIENT CONTACT: Matt Wheaton
CLIENT PROJECT: 81197152

DATE: 8/4/2020
ALS SDG#: EV20070113
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 156003 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane - BS	EPA-8260	**127**			50	150	07/31/2020	DLC
Dichlorodifluoromethane - BSD	EPA-8260	**121**	**5**		50	150	07/31/2020	DLC
Chloromethane - BS	EPA-8260	**113**			50	150	07/31/2020	DLC
Chloromethane - BSD	EPA-8260	**116**	**3**		50	150	07/31/2020	DLC
Vinyl Chloride - BS	EPA-8260	**112**			50	150	07/31/2020	DLC
Vinyl Chloride - BSD	EPA-8260	**107**	**4**		50	150	07/31/2020	DLC
Bromomethane - BS	EPA-8260	**58.4**			50	150	07/31/2020	DLC
Bromomethane - BSD	EPA-8260	**60.8**	**4**		50	150	07/31/2020	DLC
Chloroethane - BS	EPA-8260	**111**			50	150	07/31/2020	DLC
Chloroethane - BSD	EPA-8260	**107**	**4**		50	150	07/31/2020	DLC
Carbon Tetrachloride - BS	EPA-8260	**113**			50	150	07/31/2020	DLC
Carbon Tetrachloride - BSD	EPA-8260	**109**	**4**		50	150	07/31/2020	DLC
Trichlorofluoromethane - BS	EPA-8260	**123**			50	150	07/31/2020	DLC
Trichlorofluoromethane - BSD	EPA-8260	**118**	**4**		50	150	07/31/2020	DLC
1,1-Dichloroethene - BS	EPA-8260	**107**			72.5	136	07/31/2020	DLC
1,1-Dichloroethene - BSD	EPA-8260	**103**	**4**		72.5	136	07/31/2020	DLC
Methylene Chloride - BS	EPA-8260	**91.8**			50	150	07/31/2020	DLC
Methylene Chloride - BSD	EPA-8260	**89.2**	**3**		50	150	07/31/2020	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	**110**			50	150	07/31/2020	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	**105**	**4**		50	150	07/31/2020	DLC
1,1-Dichloroethane - BS	EPA-8260	**108**			50	150	07/31/2020	DLC
1,1-Dichloroethane - BSD	EPA-8260	**104**	**4**		50	150	07/31/2020	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	**107**			50	150	07/31/2020	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	**103**	**4**		50	150	07/31/2020	DLC
2,2-Dichloropropane - BS	EPA-8260	**115**			50	150	07/31/2020	DLC
2,2-Dichloropropane - BSD	EPA-8260	**109**	**5**		50	150	07/31/2020	DLC
Bromochloromethane - BS	EPA-8260	**100**			50	150	07/31/2020	DLC
Bromochloromethane - BSD	EPA-8260	**97.2**	**3**		50	150	07/31/2020	DLC
Chloroform - BS	EPA-8260	**108**			50	150	07/31/2020	DLC
Chloroform - BSD	EPA-8260	**104**	**4**		50	150	07/31/2020	DLC
1,1,1-Trichloroethane - BS	EPA-8260	**111**			50	150	07/31/2020	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	**106**	**4**		50	150	07/31/2020	DLC
1,1-Dichloropropene - BS	EPA-8260	**113**			50	150	07/31/2020	DLC
1,1-Dichloropropene - BSD	EPA-8260	**108**	**4**		50	150	07/31/2020	DLC
1,2-Dichloroethane - BS	EPA-8260	**97.5**			50	150	07/31/2020	DLC
1,2-Dichloroethane - BSD	EPA-8260	**94.4**	**3**		50	150	07/31/2020	DLC
Trichloroethene - BS	EPA-8260	**104**			74.4	141	07/31/2020	DLC
Trichloroethene - BSD	EPA-8260	**99.9**	**4**		74.4	141	07/31/2020	DLC
1,2-Dichloropropane - BS	EPA-8260	**106**			50	150	07/31/2020	DLC

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Matt Wheaton
CLIENT PROJECT: 81197152

DATE: 8/4/2020
ALS SDG#: EV20070113
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloropropane - BSD	EPA-8260	**102**	**4**		50	150	07/31/2020	DLC
Dibromomethane - BS	EPA-8260	**104**			50	150	07/31/2020	DLC
Dibromomethane - BSD	EPA-8260	**101**	**4**		50	150	07/31/2020	DLC
Bromodichloromethane - BS	EPA-8260	**104**			50	150	07/31/2020	DLC
Bromodichloromethane - BSD	EPA-8260	**100**	**4**		50	150	07/31/2020	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	**110**			50	150	07/31/2020	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	**106**	**4**		50	150	07/31/2020	DLC
Toluene - BS	EPA-8260	**109**			71.7	139	07/31/2020	DLC
Toluene - BSD	EPA-8260	**105**	**4**		71.7	139	07/31/2020	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	**107**			50	150	07/31/2020	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	**103**	**4**		50	150	07/31/2020	DLC
1,1,2-Trichloroethane - BS	EPA-8260	**105**			50	150	07/31/2020	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	**102**	**4**		50	150	07/31/2020	DLC
1,3-Dichloropropane - BS	EPA-8260	**106**			50	150	07/31/2020	DLC
1,3-Dichloropropane - BSD	EPA-8260	**102**	**4**		50	150	07/31/2020	DLC
Tetrachloroethylene - BS	EPA-8260	**104**			50	150	07/31/2020	DLC
Tetrachloroethylene - BSD	EPA-8260	**107**	**3**		50	150	07/31/2020	DLC
Dibromochloromethane - BS	EPA-8260	**108**			50	150	07/31/2020	DLC
Dibromochloromethane - BSD	EPA-8260	**104**	**3**		50	150	07/31/2020	DLC
1,2-Dibromoethane - BS	EPA-8260	**102**			50	150	07/31/2020	DLC
1,2-Dibromoethane - BSD	EPA-8260	**97.8**	**4**		50	150	07/31/2020	DLC
Chlorobenzene - BS	EPA-8260	**109**			73	131	07/31/2020	DLC
Chlorobenzene - BSD	EPA-8260	**105**	**4**		73	131	07/31/2020	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	**106**			50	150	07/31/2020	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	**102**	**4**		50	150	07/31/2020	DLC
Bromoform - BS	EPA-8260	**104**			50	150	07/31/2020	DLC
Bromoform - BSD	EPA-8260	**101**	**4**		50	150	07/31/2020	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	**105**			50	150	07/31/2020	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	**96.4**	**9**		50	150	07/31/2020	DLC
1,2,3-Trichloropropane - BS	EPA-8260	**99.3**			50	150	07/31/2020	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	**93.0**	**7**		50	150	07/31/2020	DLC
Bromobenzene - BS	EPA-8260	**106**			50	150	07/31/2020	DLC
Bromobenzene - BSD	EPA-8260	**99.9**	**6**		50	150	07/31/2020	DLC
2-Chlorotoluene - BS	EPA-8260	**108**			50	150	07/31/2020	DLC
2-Chlorotoluene - BSD	EPA-8260	**100**	**7**		50	150	07/31/2020	DLC
4-Chlorotoluene - BS	EPA-8260	**109**			50	150	07/31/2020	DLC
4-Chlorotoluene - BSD	EPA-8260	**101**	**7**		50	150	07/31/2020	DLC
1,3-Dichlorobenzene - BS	EPA-8260	**109**			50	150	07/31/2020	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	**102**	**6**		50	150	07/31/2020	DLC
1,4-Dichlorobenzene - BS	EPA-8260	**109**			50	150	07/31/2020	DLC

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	8/4/2020
		ALS SDG#:	EV20070113
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Matt Wheaton		
CLIENT PROJECT:	81197152		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene - BSD	EPA-8260	**103**	**6**		50	150	07/31/2020	DLC
1,2-Dichlorobenzene - BS	EPA-8260	**108**			50	150	07/31/2020	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	**102**	**6**		50	150	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	**102**			50	150	07/31/2020	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	**96.3**	**6**		50	150	07/31/2020	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	**107**			50	150	07/31/2020	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	**102**	**4**		50	150	07/31/2020	DLC
Hexachlorobutadiene - BS	EPA-8260	**112**			50	150	07/31/2020	DLC
Hexachlorobutadiene - BSD	EPA-8260	**105**	**6**		50	150	07/31/2020	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	**105**			50	150	07/31/2020	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	**101**	**4**		50	150	07/31/2020	DLC

APPROVED BY

Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
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ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV20070113

Date 7/28/2020 Page 1 Of 1

PROJECT ID: 81197152
REPORT TO COMPANY: Terracon
PROJECT MANAGER: Matt Wheaton
ADDRESS: 21905 64th Ave W, Ste 100 Mountlake Terrace, WA 98043
PHONE: 425-771-3304 P.O. #:
E-MAIL: matt.wheaton@terracon.com
INVOICE TO COMPANY: SAME
ATTENTION:
ADDRESS:

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐	MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. MW1	7/28/2020	1450	GW	1						X											3	
2. MW2		1335		2						X											3	
3. MW3		1300		3						X											3	
4. MW4		1125		4						X											3	
5. MW5		1155		5						X											3	
6. MW6		1000		6						X											3	
7. MW8		1220		7						X											3	
8. MW9		1050		8						X											3	
9. MW10		0925		9						X											3	
10.																						

SPECIAL INSTRUCTIONS cc: jeff.dobbins@terracon.com

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Jeff Dobbins, Terracon, 7/28/2020 1530
   Received By: [signature] ALS 7/28/20 15:30
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER:
Specify:

*Turnaround request less than standard may incur Rush Charges

June 17, 2019

Mr. Beau Johnson
Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

Dear Mr. Johnson,

On June 13th, 5 samples were received by our laboratory and assigned our laboratory project number EV19060091. The project was identified as your 81197255. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-01
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 7:55:00 AM
CLIENT SAMPLE ID	MW-10-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

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ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-01
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 7:55:00 AM
CLIENT SAMPLE ID	MW-10-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**101**	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	**110**	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-02
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 8:50:00 AM
CLIENT SAMPLE ID	MW-9-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-02
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 8:50:00 AM
CLIENT SAMPLE ID	MW-9-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**102**	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	**108**	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-03
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 9:40:00 AM
CLIENT SAMPLE ID	MW-8-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-03
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 9:40:00 AM
CLIENT SAMPLE ID	MW-8-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**103**	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	**110**	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-04
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 10:15:00 AM
CLIENT SAMPLE ID	MW-5-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-04
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 10:15:00 AM
CLIENT SAMPLE ID	MW-5-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**102**	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	**111**	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-05
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 10:50:00 AM
CLIENT SAMPLE ID	MW-4-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/17/2019 EV19060091 EV19060091-05
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/13/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/13/2019 10:50:00 AM
CLIENT SAMPLE ID	MW-4-061319	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**103**	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	**111**	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197255

DATE: 6/17/2019
ALS SDG#: EV19060091
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-061319W2 - Batch 142065 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	06/14/2019	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Chloroform	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Toluene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Bromoform	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	6/17/2019
		ALS SDG#:	EV19060091
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Beau Johnson		
CLIENT PROJECT:	81197255		

LABORATORY BLANK RESULTS

MB-061319W2 - Batch 142065 - Water by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197255

DATE: 6/17/2019
ALS SDG#: EV19060091
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 142065 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane - BS	EPA-8260	**150**		SQ3	50	150	06/14/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	**108**	**33**		50	150	06/14/2019	DLC
Chloromethane - BS	EPA-8260	**121**			50	150	06/14/2019	DLC
Chloromethane - BSD	EPA-8260	**97.2**	**22**		50	150	06/14/2019	DLC
Vinyl Chloride - BS	EPA-8260	**113**			50	150	06/14/2019	DLC
Vinyl Chloride - BSD	EPA-8260	**93.2**	**19**		50	150	06/14/2019	DLC
Bromomethane - BS	EPA-8260	**121**			50	150	06/14/2019	DLC
Bromomethane - BSD	EPA-8260	**102**	**17**		50	150	06/14/2019	DLC
Chloroethane - BS	EPA-8260	**123**			50	150	06/14/2019	DLC
Chloroethane - BSD	EPA-8260	**101**	**20**		50	150	06/14/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	**133**			50	150	06/14/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	**109**	**20**		50	150	06/14/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	**135**			50	150	06/14/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	**108**	**22**		50	150	06/14/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	**127**			72.5	136	06/14/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	**104**	**19**		72.5	136	06/14/2019	DLC
Methylene Chloride - BS	EPA-8260	**114**			50	150	06/14/2019	DLC
Methylene Chloride - BSD	EPA-8260	**97.3**	**16**		50	150	06/14/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	**122**			50	150	06/14/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	**101**	**19**		50	150	06/14/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	**124**			50	150	06/14/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	**104**	**18**		50	150	06/14/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	**119**			50	150	06/14/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	**99.9**	**17**		50	150	06/14/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	**95.8**			50	150	06/14/2019	DLC
2,2-Dichloropropane - BSD	EPA-8260	**77.8**	**21**		50	150	06/14/2019	DLC
Bromochloromethane - BS	EPA-8260	**117**			50	150	06/14/2019	DLC
Bromochloromethane - BSD	EPA-8260	**99.3**	**16**		50	150	06/14/2019	DLC
Chloroform - BS	EPA-8260	**111**			50	150	06/14/2019	DLC
Chloroform - BSD	EPA-8260	**93.7**	**17**		50	150	06/14/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	**126**			50	150	06/14/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	**104**	**19**		50	150	06/14/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	**128**			50	150	06/14/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	**105**	**20**		50	150	06/14/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	**109**			50	150	06/14/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	**94.3**	**15**		50	150	06/14/2019	DLC
Trichloroethene - BS	EPA-8260	**121**			74.4	141	06/14/2019	DLC
Trichloroethene - BSD	EPA-8260	**100**	**19**		74.4	141	06/14/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	**123**			50	150	06/14/2019	DLC

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197255

DATE: 6/17/2019
ALS SDG#: EV19060091
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloropropane - BSD	EPA-8260	**104**	**16**		50	150	06/14/2019	DLC
Dibromomethane - BS	EPA-8260	**118**			50	150	06/14/2019	DLC
Dibromomethane - BSD	EPA-8260	**103**	**14**		50	150	06/14/2019	DLC
Bromodichloromethane - BS	EPA-8260	**122**			50	150	06/14/2019	DLC
Bromodichloromethane - BSD	EPA-8260	**105**	**15**		50	150	06/14/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	**95.5**			50	150	06/14/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	**82.5**	**15**		50	150	06/14/2019	DLC
Toluene - BS	EPA-8260	**123**			71.7	139	06/14/2019	DLC
Toluene - BSD	EPA-8260	**103**	**17**		71.7	139	06/14/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	**101**			50	150	06/14/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	**86.0**	**16**		50	150	06/14/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	**114**			50	150	06/14/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	**98.0**	**15**		50	150	06/14/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	**117**			50	150	06/14/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	**101**	**15**		50	150	06/14/2019	DLC
Tetrachloroethylene - BS	EPA-8260	**129**			50	150	06/14/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	**110**	**16**		50	150	06/14/2019	DLC
Dibromochloromethane - BS	EPA-8260	**116**			50	150	06/14/2019	DLC
Dibromochloromethane - BSD	EPA-8260	**100**	**15**		50	150	06/14/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	**102**			50	150	06/14/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	**88.3**	**15**		50	150	06/14/2019	DLC
Chlorobenzene - BS	EPA-8260	**119**			73	131	06/14/2019	DLC
Chlorobenzene - BSD	EPA-8260	**100**	**17**		73	131	06/14/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	**113**			50	150	06/14/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	**95.7**	**17**		50	150	06/14/2019	DLC
Bromoform - BS	EPA-8260	**112**			50	150	06/14/2019	DLC
Bromoform - BSD	EPA-8260	**97.6**	**14**		50	150	06/14/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	**106**			50	150	06/14/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	**91.5**	**14**		50	150	06/14/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	**104**			50	150	06/14/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	**90.6**	**14**		50	150	06/14/2019	DLC
Bromobenzene - BS	EPA-8260	**112**			50	150	06/14/2019	DLC
Bromobenzene - BSD	EPA-8260	**94.9**	**16**		50	150	06/14/2019	DLC
2-Chlorotoluene - BS	EPA-8260	**115**			50	150	06/14/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	**96.7**	**17**		50	150	06/14/2019	DLC
4-Chlorotoluene - BS	EPA-8260	**118**			50	150	06/14/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	**99.2**	**17**		50	150	06/14/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	**117**			50	150	06/14/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	**98.4**	**17**		50	150	06/14/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	**116**			50	150	06/14/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197255

DATE: 6/17/2019
ALS SDG#: EV19060091
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene - BSD	EPA-8260	**98.8**	**16**		50	150	06/14/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	**118**			50	150	06/14/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	**100**	**16**		50	150	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	**117**			50	150	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	**102**	**13**		50	150	06/14/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	**109**			50	150	06/14/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	**94.0**	**15**		50	150	06/14/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	**128**			50	150	06/14/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	**106**	**19**		50	150	06/14/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	**108**			50	150	06/14/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	**94.4**	**13**		50	150	06/14/2019	DLC

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.

APPROVED BY

Laboratory Director

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ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
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http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1906 0091

Date 6/13/19 Page 1 Of 1

PROJECT ID: 8197255
REPORT TO COMPANY: Terracon
PROJECT MANAGER: Beau Johnson
ADDRESS: 21905 64th Ave W Ste 100
Mountlake Terrace WA 98043
PHONE: 425-771-3304 P.O. #:
E-MAIL: beau.johnson@terracon.com cc: lauren.thompson@terracon.com
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. MW-10-061319	6/13/19	0755	H_2O	1
2. MW-9-061319	6/13/19	0850	H_2O	2
3. MW-8-061319	6/13/19	0940	H_2O	3
4. MW-5-061319	6/13/19	1015	H_2O	4
5. MW-4-061319	6/13/19	1050	H_2O	5
6.				
7.				
8.				
9.				
10.				

SAMPLE I.D.	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐	MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify): cVOCs by EPA 8260	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. MW-10-061319																X	3	
2. MW-9-061319																X	3	
3. MW-8-061319																X	3	
4. MW-5-061319																X	3	
5. MW-4-061319																X	3	
6.																		
7.								LT										
8.																		
9.																		
10.																		

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Terracon 6/13/19 1308
Received By: ALS 6/13/19 1308
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER: Specify: Results by Monday 6/17

*Turnaround request less than standard may incur Rush Charges

June 7, 2019

Mr. Beau Johnson
Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

Dear Mr. Johnson,

On June 5th, 8 samples were received by our laboratory and assigned our laboratory project number EV19060026. The project was identified as your 81197255. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-01
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 10:35:00 AM
CLIENT SAMPLE ID	Culvert out - 060519	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/06/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/06/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/06/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-01
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 10:35:00 AM
CLIENT SAMPLE ID	Culvert out - 060519	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/06/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**98.9**	06/06/2019	DLC
4-Bromofluorobenzene	EPA-8260	**88.1**	06/06/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-02
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 10:50:00 AM
CLIENT SAMPLE ID	Culvert in - 060519	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/06/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/06/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/06/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-02
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 10:50:00 AM
CLIENT SAMPLE ID	Culvert in - 060519	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/06/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**99.8**	06/06/2019	DLC
4-Bromofluorobenzene	EPA-8260	**88.1**	06/06/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-03
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 9:50:00 AM
CLIENT SAMPLE ID	MW-8-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	06/07/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	06/07/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-03
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 9:50:00 AM
CLIENT SAMPLE ID	MW-8-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	06/07/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**94.9**	06/07/2019	DLC
4-Bromofluorobenzene	EPA-8260	**90.4**	06/07/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-05
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 11:15:00 AM
CLIENT SAMPLE ID	MW-9-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	06/07/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	06/07/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-05
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 11:15:00 AM
CLIENT SAMPLE ID	MW-9-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	06/07/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**96.0**	06/07/2019	DLC
4-Bromofluorobenzene	EPA-8260	**94.1**	06/07/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-08
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 1:45:00 PM
CLIENT SAMPLE ID	MW-10-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	06/07/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	06/07/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE: ALS JOB#: ALS SAMPLE#:	6/7/2019 EV19060026 EV19060026-08
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	06/05/2019
CLIENT PROJECT:	81197255	COLLECTION DATE:	6/5/2019 1:45:00 PM
CLIENT SAMPLE ID	MW-10-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	06/07/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**99.0**	06/07/2019	DLC
4-Bromofluorobenzene	EPA-8260	**92.3**	06/07/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197255

DATE: 6/7/2019
ALS SDG#: EV19060026
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-060619S - Batch 141745 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	06/06/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Toluene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,3-Dichloropropane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	06/06/2019	DLC
Chlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197255

DATE: 6/7/2019
ALS SDG#: EV19060026
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-060619S - Batch 141745 - Soil by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	MG/KG	0.050	06/06/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Hexachlorobutadiene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

MB-060619W - Batch 141739 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	06/06/2019	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	06/06/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Chloroform	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Toluene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	06/06/2019	DLC

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LABORATORY BLANK RESULTS

MB-060619W - Batch 141739 - Water by EPA-8260

Chlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Bromoform	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	06/06/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC

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LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 141745 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane - BS	EPA-8260	**94.8**			50	150	06/06/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	**99.4**	**5**		50	150	06/06/2019	DLC
Chloromethane - BS	EPA-8260	**97.5**			50	150	06/06/2019	DLC
Chloromethane - BSD	EPA-8260	**101**	**4**		50	150	06/06/2019	DLC
Vinyl Chloride - BS	EPA-8260	**92.0**			50	150	06/06/2019	DLC
Vinyl Chloride - BSD	EPA-8260	**95.9**	**4**		50	150	06/06/2019	DLC
Bromomethane - BS	EPA-8260	**106**			50	150	06/06/2019	DLC
Bromomethane - BSD	EPA-8260	**120**	**12**		50	150	06/06/2019	DLC
Chloroethane - BS	EPA-8260	**97.4**			50	150	06/06/2019	DLC
Chloroethane - BSD	EPA-8260	**102**	**4**		50	150	06/06/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	**104**			50	150	06/06/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	**107**	**3**		50	150	06/06/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	**99.3**			50	150	06/06/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	**104**	**5**		50	150	06/06/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	**90.9**			70	130	06/06/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	**94.9**	**4**		70	130	06/06/2019	DLC
Methylene Chloride - BS	EPA-8260	**122**			50	150	06/06/2019	DLC
Methylene Chloride - BSD	EPA-8260	**126**	**3**		50	150	06/06/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	**99.7**			50	150	06/06/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	**101**	**1**		50	150	06/06/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	**96.7**			50	150	06/06/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	**99.9**	**3**		50	150	06/06/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	**107**			50	150	06/06/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	**112**	**5**		50	150	06/06/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
2,2-Dichloropropane - BSD	EPA-8260	**106**	**5**		50	150	06/06/2019	DLC
Bromochloromethane - BS	EPA-8260	**96.4**			50	150	06/06/2019	DLC
Bromochloromethane - BSD	EPA-8260	**101**	**5**		50	150	06/06/2019	DLC
Chloroform - BS	EPA-8260	**105**			50	150	06/06/2019	DLC
Chloroform - BSD	EPA-8260	**110**	**4**		50	150	06/06/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	**97.1**			50	150	06/06/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	**100**	**3**		50	150	06/06/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	**105**			50	150	06/06/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	**108**	**3**		50	150	06/06/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	**103**	**2**		50	150	06/06/2019	DLC
Trichloroethene - BS	EPA-8260	**99.5**			75	136	06/06/2019	DLC
Trichloroethene - BSD	EPA-8260	**101**	**1**		75	136	06/06/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	**97.7**			50	150	06/06/2019	DLC

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LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloropropane - BSD	EPA-8260	**99.4**	**2**		50	150	06/06/2019	DLC
Dibromomethane - BS	EPA-8260	**102**			50	150	06/06/2019	DLC
Dibromomethane - BSD	EPA-8260	**105**	**3**		50	150	06/06/2019	DLC
Bromodichloromethane - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
Bromodichloromethane - BSD	EPA-8260	**103**	**2**		50	150	06/06/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	**108**			50	150	06/06/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	**112**	**4**		50	150	06/06/2019	DLC
Toluene - BS	EPA-8260	**102**			71.6	122.1	06/06/2019	DLC
Toluene - BSD	EPA-8260	**104**	**2**		71.6	122.1	06/06/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	**113**			50	150	06/06/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	**114**	**1**		50	150	06/06/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	**102**			50	150	06/06/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	**105**	**3**		50	150	06/06/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	**95.0**			50	150	06/06/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	**98.2**	**3**		50	150	06/06/2019	DLC
Tetrachloroethylene - BS	EPA-8260	**86.7**			50	150	06/06/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	**87.9**	**1**		50	150	06/06/2019	DLC
Dibromochloromethane - BS	EPA-8260	**92.7**			50	150	06/06/2019	DLC
Dibromochloromethane - BSD	EPA-8260	**95.0**	**2**		50	150	06/06/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	**102**			50	150	06/06/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	**105**	**3**		50	150	06/06/2019	DLC
Chlorobenzene - BS	EPA-8260	**95.8**			79	128	06/06/2019	DLC
Chlorobenzene - BSD	EPA-8260	**100**	**5**		79	128	06/06/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	**91.8**			50	150	06/06/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	**95.1**	**4**		50	150	06/06/2019	DLC
Bromoform - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
Bromoform - BSD	EPA-8260	**105**	**4**		50	150	06/06/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	**105**			50	150	06/06/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	**107**	**3**		50	150	06/06/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	**106**			50	150	06/06/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	**109**	**2**		50	150	06/06/2019	DLC
Bromobenzene - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
Bromobenzene - BSD	EPA-8260	**103**	**2**		50	150	06/06/2019	DLC
2-Chlorotoluene - BS	EPA-8260	**109**			50	150	06/06/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	**111**	**1**		50	150	06/06/2019	DLC
4-Chlorotoluene - BS	EPA-8260	**114**			50	150	06/06/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	**116**	**2**		50	150	06/06/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	**103**	**3**		50	150	06/06/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	**98.0**			50	150	06/06/2019	DLC

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LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene - BSD	EPA-8260	**101**	**3**		50	150	06/06/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	**104**			50	150	06/06/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	**109**	**4**		50	150	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	**111**			50	150	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	**113**	**1**		50	150	06/06/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	**108**			50	150	06/06/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	**111**	**3**		50	150	06/06/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	**94.4**			50	150	06/06/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	**94.7**	**0**		50	150	06/06/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	**108**			50	150	06/06/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	**113**	**4**		50	150	06/06/2019	DLC

ALS Test Batch ID: 141739 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane - BS	EPA-8260	**105**			50	150	06/06/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	**103**	**3**		50	150	06/06/2019	DLC
Chloromethane - BS	EPA-8260	**107**			50	150	06/06/2019	DLC
Chloromethane - BSD	EPA-8260	**102**	**4**		50	150	06/06/2019	DLC
Vinyl Chloride - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
Vinyl Chloride - BSD	EPA-8260	**98.1**	**3**		50	150	06/06/2019	DLC
Bromomethane - BS	EPA-8260	**114**			50	150	06/06/2019	DLC
Bromomethane - BSD	EPA-8260	**106**	**8**		50	150	06/06/2019	DLC
Chloroethane - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
Chloroethane - BSD	EPA-8260	**103**	**2**		50	150	06/06/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	**110**			50	150	06/06/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	**108**	**2**		50	150	06/06/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	**111**			50	150	06/06/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	**105**	**5**		50	150	06/06/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	**97.7**			72.5	136	06/06/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	**96.3**	**1**		72.5	136	06/06/2019	DLC
Methylene Chloride - BS	EPA-8260	**103**			50	150	06/06/2019	DLC
Methylene Chloride - BSD	EPA-8260	**102**	**1**		50	150	06/06/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	**104**			50	150	06/06/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	**102**	**2**		50	150	06/06/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	**101**			50	150	06/06/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	**98.4**	**3**		50	150	06/06/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	**111**			50	150	06/06/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	**109**	**2**		50	150	06/06/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	**113**			50	150	06/06/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197255

DATE: 6/7/2019
ALS SDG#: EV19060026
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
2,2-Dichloropropane - BSD	EPA-8260	**112**	**1**		50	150	06/06/2019	DLC
Bromochloromethane - BS	EPA-8260	**99.2**			50	150	06/06/2019	DLC
Bromochloromethane - BSD	EPA-8260	**99.6**	**0**		50	150	06/06/2019	DLC
Chloroform - BS	EPA-8260	**111**			50	150	06/06/2019	DLC
Chloroform - BSD	EPA-8260	**111**	**0**		50	150	06/06/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	**103**			50	150	06/06/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	**101**	**2**		50	150	06/06/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	**111**			50	150	06/06/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	**108**	**3**		50	150	06/06/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	**103**			50	150	06/06/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	**103**	**1**		50	150	06/06/2019	DLC
Trichloroethene - BS	EPA-8260	**104**			74.4	141	06/06/2019	DLC
Trichloroethene - BSD	EPA-8260	**103**	**1**		74.4	141	06/06/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	**99.4**			50	150	06/06/2019	DLC
1,2-Dichloropropane - BSD	EPA-8260	**99.6**	**0**		50	150	06/06/2019	DLC
Dibromomethane - BS	EPA-8260	**98.9**			50	150	06/06/2019	DLC
Dibromomethane - BSD	EPA-8260	**103**	**4**		50	150	06/06/2019	DLC
Bromodichloromethane - BS	EPA-8260	**103**			50	150	06/06/2019	DLC
Bromodichloromethane - BSD	EPA-8260	**103**	**0**		50	150	06/06/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	**111**			50	150	06/06/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	**115**	**3**		50	150	06/06/2019	DLC
Toluene - BS	EPA-8260	**105**			71.7	139	06/06/2019	DLC
Toluene - BSD	EPA-8260	**105**	**0**		71.7	139	06/06/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	**116**			50	150	06/06/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	**117**	**1**		50	150	06/06/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	**105**			50	150	06/06/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	**106**	**0**		50	150	06/06/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	**98.9**			50	150	06/06/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	**98.0**	**1**		50	150	06/06/2019	DLC
Tetrachloroethylene - BS	EPA-8260	**95.0**			50	150	06/06/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	**96.2**	**1**		50	150	06/06/2019	DLC
Dibromochloromethane - BS	EPA-8260	**96.3**			50	150	06/06/2019	DLC
Dibromochloromethane - BSD	EPA-8260	**95.7**	**1**		50	150	06/06/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	**106**			50	150	06/06/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	**105**	**1**		50	150	06/06/2019	DLC
Chlorobenzene - BS	EPA-8260	**102**			73	131	06/06/2019	DLC
Chlorobenzene - BSD	EPA-8260	**99.6**	**3**		73	131	06/06/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	**97.1**			50	150	06/06/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	**94.5**	**3**		50	150	06/06/2019	DLC
Bromoform - BS	EPA-8260	**103**			50	150	06/06/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197255

DATE: 6/7/2019
ALS SDG#: EV19060026
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Bromoform - BSD	EPA-8260	**105**	**2**		50	150	06/06/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	**104**			50	150	06/06/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	**108**	**4**		50	150	06/06/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	**106**			50	150	06/06/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	**108**	**2**		50	150	06/06/2019	DLC
Bromobenzene - BS	EPA-8260	**106**			50	150	06/06/2019	DLC
Bromobenzene - BSD	EPA-8260	**105**	**0**		50	150	06/06/2019	DLC
2-Chlorotoluene - BS	EPA-8260	**113**			50	150	06/06/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	**112**	**0**		50	150	06/06/2019	DLC
4-Chlorotoluene - BS	EPA-8260	**117**			50	150	06/06/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	**117**	**0**		50	150	06/06/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	**104**			50	150	06/06/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	**105**	**1**		50	150	06/06/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	**103**			50	150	06/06/2019	DLC
1,4-Dichlorobenzene - BSD	EPA-8260	**102**	**1**		50	150	06/06/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	**108**			50	150	06/06/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	**109**	**1**		50	150	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	**109**			50	150	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	**114**	**4**		50	150	06/06/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	**112**			50	150	06/06/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	**115**	**3**		50	150	06/06/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	**98.3**			50	150	06/06/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	**97.4**	**1**		50	150	06/06/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	**112**			50	150	06/06/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	**115**	**3**		50	150	06/06/2019	DLC

APPROVED BY

Laboratory Director

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ALS Environmental
8620 Holly Drive, Suite 100
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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1906O026

Date 6/5/19 Page 1 Of 1

PROJECT ID: 81197255
REPORT TO COMPANY: Terracon
PROJECT MANAGER: Beau Johnson
ADDRESS: 21905 64th Ave W Ste 100
Mountlake Terrace, WA
PHONE: (425) 771-3304 P.O. #:
E-MAIL: beau.johnson@terracon.com cc: lauren.thompson@
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐	MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	OTHER (Specify): cVOCs by EPA 8260	OTHER (Specify): HOLD	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. Culvert out - 060519	6/5/19	1035	~~Soil~~ H2O	1															X		3	
2. Culvert in - 060519	6/5/19	1050	~~Soil~~ H2O	2															X		3	
3. MW-8-4	6/5/19	0950	Soil	3															⊗	X	4	
4. MW-8-10	6/5/19	0955	Soil	4																X	4	
5. MW-9-10	6/5/19	1115	Soil	5															⊗	X	4	
6. MW-9-15	6/5/19	1130	Soil	6																X	4	
7. MW-10-7	6/5/19	1330	Soil	7																X	4	
8. MW-10-12	6/5/19	1345	Soil	8															⊗	X	4	
9.											LT											
10.																						

SPECIAL INSTRUCTIONS: ⊗ Added 6/5/19 per Lauren on 2day TAT

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Lauren Thompson Terracon 6/5/19 1545
   Received By: [signature] ALS 6/5/19 15:45
2. Relinquished By: [signature]
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 Standard | 5 | 3 | ~~2~~ | ~~1~~ | SAME DAY

Fuels & Hydrocarbon Analysis: 5 Standard | 3 | 1 | SAME DAY

OTHER: Specify: Results by Friday please

*Turnaround request less than standard may incur Rush Charges

May 3, 2019

Mr. Beau Johnson
Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

Dear Mr. Johnson,

On April 29th, 8 samples were received by our laboratory and assigned our laboratory project number EV19040198. The project was identified as your 81197152. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS JOB#:	EV19040198
		ALS SAMPLE#:	EV19040198-01
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	04/29/2019
CLIENT PROJECT:	81197152	COLLECTION DATE:	4/26/2019 10:50:00 AM
CLIENT SAMPLE ID	MW4-6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS JOB#:	EV19040198
		ALS SAMPLE#:	EV19040198-01
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	04/29/2019
CLIENT PROJECT:	81197152	COLLECTION DATE:	4/26/2019 10:50:00 AM
CLIENT SAMPLE ID	MW4-6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**95.1**	05/02/2019	DLC
4-Bromofluorobenzene	EPA-8260	**92.4**	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS JOB#:	EV19040198
		ALS SAMPLE#:	EV19040198-03
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	04/29/2019
CLIENT PROJECT:	81197152	COLLECTION DATE:	4/26/2019 9:05:00 AM
CLIENT SAMPLE ID	MW5-6.5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS JOB#:	EV19040198
		ALS SAMPLE#:	EV19040198-03
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	04/29/2019
CLIENT PROJECT:	81197152	COLLECTION DATE:	4/26/2019 9:05:00 AM
CLIENT SAMPLE ID	MW5-6.5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**95.6**	05/02/2019	DLC
4-Bromofluorobenzene	EPA-8260	**95.9**	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS JOB#:	EV19040198
		ALS SAMPLE#:	EV19040198-05
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	04/29/2019
CLIENT PROJECT:	81197152	COLLECTION DATE:	4/25/2019 9:05:00 AM
CLIENT SAMPLE ID	MW6-6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS JOB#:	EV19040198
		ALS SAMPLE#:	EV19040198-05
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	04/29/2019
CLIENT PROJECT:	81197152	COLLECTION DATE:	4/25/2019 9:05:00 AM
CLIENT SAMPLE ID	MW6-6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**96.5**	05/02/2019	DLC
4-Bromofluorobenzene	EPA-8260	**91.9**	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS JOB#:	EV19040198
		ALS SAMPLE#:	EV19040198-07
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	04/29/2019
CLIENT PROJECT:	81197152	COLLECTION DATE:	4/25/2019 11:05:00 AM
CLIENT SAMPLE ID	MW7-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS JOB#:	EV19040198
		ALS SAMPLE#:	EV19040198-07
CLIENT CONTACT:	Beau Johnson	DATE RECEIVED:	04/29/2019
CLIENT PROJECT:	81197152	COLLECTION DATE:	4/25/2019 11:05:00 AM
CLIENT SAMPLE ID	MW7-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	**94.9**	05/02/2019	DLC
4-Bromofluorobenzene	EPA-8260	**92.6**	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197152

DATE: 5/3/2019
ALS SDG#: EV19040198
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-050219S - Batch 140499 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Toluene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC

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CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS SDG#:	EV19040198
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Beau Johnson		
CLIENT PROJECT:	81197152		

LABORATORY BLANK RESULTS

MB-050219S - Batch 140499 - Soil by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	MG/KG	0.050	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

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ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197152

DATE: 5/3/2019
ALS SDG#: EV19040198
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 140499 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane - BS	EPA-8260	**89.9**			50	150	05/02/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	**82.6**	**9**		50	150	05/02/2019	DLC
Chloromethane - BS	EPA-8260	**90.7**			50	150	05/02/2019	DLC
Chloromethane - BSD	EPA-8260	**86.9**	**4**		50	150	05/02/2019	DLC
Vinyl Chloride - BS	EPA-8260	**90.1**			50	150	05/02/2019	DLC
Vinyl Chloride - BSD	EPA-8260	**86.6**	**4**		50	150	05/02/2019	DLC
Bromomethane - BS	EPA-8260	**93.2**			50	150	05/02/2019	DLC
Bromomethane - BSD	EPA-8260	**86.1**	**8**		50	150	05/02/2019	DLC
Chloroethane - BS	EPA-8260	**94.5**			50	150	05/02/2019	DLC
Chloroethane - BSD	EPA-8260	**89.2**	**6**		50	150	05/02/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	**97.8**			50	150	05/02/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	**92.4**	**6**		50	150	05/02/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	**96.5**			50	150	05/02/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	**91.9**	**5**		50	150	05/02/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	**99.9**			70	130	05/02/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	**94.4**	**6**		70	130	05/02/2019	DLC
Methylene Chloride - BS	EPA-8260	**99.2**			50	150	05/02/2019	DLC
Methylene Chloride - BSD	EPA-8260	**95.3**	**4**		50	150	05/02/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	**99.1**			50	150	05/02/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	**94.0**	**5**		50	150	05/02/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	**91.6**			50	150	05/02/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	**87.9**	**4**		50	150	05/02/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	**102**			50	150	05/02/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	**96.9**	**5**		50	150	05/02/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	**99.6**			50	150	05/02/2019	DLC
2,2-Dichloropropane - BSD	EPA-8260	**92.8**	**7**		50	150	05/02/2019	DLC
Bromochloromethane - BS	EPA-8260	**88.8**			50	150	05/02/2019	DLC
Bromochloromethane - BSD	EPA-8260	**84.9**	**4**		50	150	05/02/2019	DLC
Chloroform - BS	EPA-8260	**112**			50	150	05/02/2019	DLC
Chloroform - BSD	EPA-8260	**105**	**6**		50	150	05/02/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	**100**			50	150	05/02/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	**93.4**	**7**		50	150	05/02/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	**98.5**			50	150	05/02/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	**94.8**	**4**		50	150	05/02/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	**88.3**			50	150	05/02/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	**90.1**	**2**		50	150	05/02/2019	DLC
Trichloroethene - BS	EPA-8260	**99.4**			75	136	05/02/2019	DLC
Trichloroethene - BSD	EPA-8260	**97.7**	**2**		75	136	05/02/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	**93.0**			50	150	05/02/2019	DLC

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT: Terracon
21905 - 64th Ave W, Suite 100
Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197152

DATE: 5/3/2019
ALS SDG#: EV19040198
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloropropane - BSD	EPA-8260	**93.6**	**1**		50	150	05/02/2019	DLC
Dibromomethane - BS	EPA-8260	**90.3**			50	150	05/02/2019	DLC
Dibromomethane - BSD	EPA-8260	**92.4**	**2**		50	150	05/02/2019	DLC
Bromodichloromethane - BS	EPA-8260	**92.9**			50	150	05/02/2019	DLC
Bromodichloromethane - BSD	EPA-8260	**93.7**	**1**		50	150	05/02/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	**100**			50	150	05/02/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	**98.9**	**1**		50	150	05/02/2019	DLC
Toluene - BS	EPA-8260	**97.9**			71.6	122.1	05/02/2019	DLC
Toluene - BSD	EPA-8260	**93.3**	**5**		71.6	122.1	05/02/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	**98.0**			50	150	05/02/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	**99.7**	**2**		50	150	05/02/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	**95.0**			50	150	05/02/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	**94.2**	**1**		50	150	05/02/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	**85.6**			50	150	05/02/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	**86.8**	**1**		50	150	05/02/2019	DLC
Tetrachloroethylene - BS	EPA-8260	**108**			50	150	05/02/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	**107**	**1**		50	150	05/02/2019	DLC
Dibromochloromethane - BS	EPA-8260	**91.2**			50	150	05/02/2019	DLC
Dibromochloromethane - BSD	EPA-8260	**90.4**	**1**		50	150	05/02/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	**97.8**			50	150	05/02/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	**96.8**	**1**		50	150	05/02/2019	DLC
Chlorobenzene - BS	EPA-8260	**98.8**			79	128	05/02/2019	DLC
Chlorobenzene - BSD	EPA-8260	**95.6**	**3**		79	128	05/02/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	**94.4**			50	150	05/02/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	**90.7**	**4**		50	150	05/02/2019	DLC
Bromoform - BS	EPA-8260	**101**			50	150	05/02/2019	DLC
Bromoform - BSD	EPA-8260	**97.6**	**3**		50	150	05/02/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	**86.1**			50	150	05/02/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	**88.3**	**3**		50	150	05/02/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	**86.4**			50	150	05/02/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	**88.1**	**2**		50	150	05/02/2019	DLC
Bromobenzene - BS	EPA-8260	**91.2**			50	150	05/02/2019	DLC
Bromobenzene - BSD	EPA-8260	**92.9**	**2**		50	150	05/02/2019	DLC
2-Chlorotoluene - BS	EPA-8260	**92.2**			50	150	05/02/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	**92.7**	**1**		50	150	05/02/2019	DLC
4-Chlorotoluene - BS	EPA-8260	**96.0**			50	150	05/02/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	**94.0**	**2**		50	150	05/02/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	**92.6**			50	150	05/02/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	**89.9**	**3**		50	150	05/02/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	**96.1**			50	150	05/02/2019	DLC

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CERTIFICATE OF ANALYSIS

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21905 - 64th Ave W, Suite 100
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CLIENT CONTACT: Beau Johnson
CLIENT PROJECT: 81197152

DATE: 5/3/2019
ALS SDG#: EV19040198
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene - BSD	EPA-8260	**95.1**	**1**		50	150	05/02/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	**91.3**			50	150	05/02/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	**91.0**	**0**		50	150	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	**82.9**			50	150	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	**84.8**	**2**		50	150	05/02/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	**97.0**			50	150	05/02/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	**95.5**	**2**		50	150	05/02/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	**88.3**			50	150	05/02/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	**85.4**	**3**		50	150	05/02/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	**97.8**			50	150	05/02/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	**95.4**	**2**		50	150	05/02/2019	DLC

APPROVED BY

Laboratory Director

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ALS Environmental
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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only): EV1904 0198

Date 4/29/19 Page 1 Of 1

PROJECT ID: 81197152
REPORT TO COMPANY: Terracon
PROJECT MANAGER: Beau Johnson
ADDRESS: 21905 64th Ave W, Ste 100
Mountlake Terrace, WA 98043
PHONE: 425-771-3304 P.O. #:
E-MAIL: beau.johnson@terracon.com jeff.dobbins@terracon.com
INVOICE TO COMPANY: SAME
ATTENTION:
ADDRESS:

ANALYSIS REQUESTED

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 ☐	BTEX by EPA 8260 ☐	MTBE by EPA 8021 ☐	MTBE by EPA 8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 ☐	Pesticides by EPA 8081 ☐	Metals-MTCA-5 ☐	RCRA-8 ☐	Pri Pol ☐	TAL ☐	Metals Other (Specify)	TCLP-Metals ☐	VOA ☐	Semi-Vol ☐	Pest ☐	Herbs ☐	OTHER (Specify)	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. MW4-6	4/26/19	1050	soil	1								⊗																		HOLD X RS		
2. MW4-12	4/26/19	1055		2																										X		
3. MW5-6.5	4/26/19	0905		3								⊗																		HOLD X RS		
4. MW5-9	4/26/19	0905		4																										X		
5. MW6-6	4/25/19	0905		5								⊗																		HOLD X RS		
6. MW6-13	4/25/19	0910		6																										X		
7. MW7-12	4/25/19	1105		7								⊗																		HOLD X RS		
8. MW7-45	4/25/19	1400		8																										X		
9.																																
10.																																

SPECIAL INSTRUCTIONS: ⊗ Add'l by Beau 4/29/19 1:50 pm

SIGNATURES (Name, Company, Date, Time):
1. Relinquished By: Beau Johnson Terracon 4/29/19 9:30 AM
Received By: Ellen Ruiz ALS 4/29/19 9:30 AM
2. Relinquished By:
Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: 10 Standard | (5) | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: (5) Standard | 3 | 1 | SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges