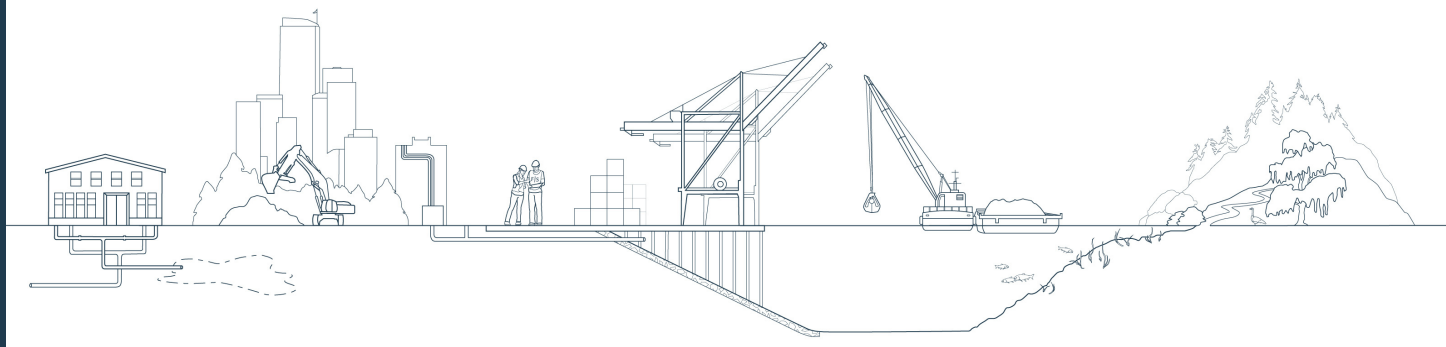
Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Prepared for
City of Bothell

May 2026 Preliminary Draft



FLOYD | SNIDER 30 YEARS
strategy ▪ science ▪ engineering

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List of Abbreviations

Abbreviation	Definition
AOC	Area of concern
BDI Plus	Bio-Dechlor Inoculum
bgs	Below ground surface
BMP	Best management practice
CAP	Cleanup Action Plan
CAS	Chemical Abstracts Service
CID	Contained-in determination
City	City of Bothell
COC	Contaminant of concern
CSGP	Construction Stormwater General Permit
CUL	Cleanup level
CVOC	Chlorinated volatile organic compound
DCE	Dichloroethene
DO	Dissolved oxygen
Ecology	Washington State Department of Ecology
EDR	Engineering Design Report
EIM	Environmental Information Management
GPP	Gallons per point
GRO	Gasoline-range organics
HASP	Health and Safety Plan
Holt	Holt Services, Inc.
IC	Institutional control
IDW	Investigation-derived waste

Abbreviation	Definition
IM	Interim measure
IP	Injection point
L	Liters
µg/L	Micrograms per liter
mg/kg	Milligrams per kilogram
Minimum Standards	Washington State Minimum Standards for Construction and Maintenance of Wells
MNA	Monitored natural attenuation
MOA	Memorandum of Agreement
MTCA	Model Toxics Control Act
ORP	Oxidation−reduction potential
OSHA	Occupational Health and Safety Act
PCE	Tetrachloroethene
POC	Point of compliance
Protocol	Contaminated Soil and Groundwater Protocol
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
REL	Remediation level
ROW	Right-of-way
RRS	Regenesis Remediation Solutions
Site	Ultra Custom Care Cleaners Site
S-mZVI	Sulfidated microscale zero-valent iron
Source Property	Former dry cleaner property containing the source of Site contamination
SPECP	Spill Prevention and Emergency Countermeasure Plan
TCE	Trichloroethene
Titan	Titan Earthwork LLC
UIC	Underground Injection Control
VOC	Volatile organic compound
WAC	Washington Administrative Code
ZVI	Zero-valent iron

1.0 Introduction

This Phase 1 Construction Summary was prepared by Floyd|Snider at the request of the City of Bothell (City) for the Ultra Custom Care Cleaners Site (Site). This report summarizes activities undertaken to remediate residual contamination at the Site associated with several former dry cleaning facilities and adjacent downgradient properties where contamination resulting from releases of dry cleaning solvents had come to lie. This report is a preliminary summary pending information collected during a 1-year assessment period following the installation of cleanup action components discussed herein; data collected during the assessment period will inform a final Engineer's opinion regarding the sufficiency of the cleanup action.

The City entered into a Consent Decree with the Washington State Department of Ecology (Ecology) on February 10, 2023 (Ecology 2023) to implement the Cleanup Action Plan (CAP; Ecology 2022a) for the Site. The cleanup action implementation began in 2023 with contaminated soil excavation on the former dry cleaner property containing the source of Site contamination (Source Property; refer to Figure 1.1) and was completed in 2025 with in situ groundwater treatment injections in accordance with design criteria selected by Ecology in the CAP for the Site and the Engineering Design Report (EDR; Floyd|Snider 2023). Site background, geology, hydrology, and conceptual site model information are presented in the EDR (Floyd|Snider 2023).

The excavation scope was completed in December 2023. Implementation of in situ treatment barrier injections in accordance with the CAP (Ecology 2022a), which included the Source Property, the downgradient privately owned Ranch Drive-In and Speedy Glass properties, and City of Bothell Lot E,F,G (refer to Figure 1.1) was delayed while the City secured easements to access two privately owned properties. In October 2024, a supplemental groundwater monitoring event was conducted at the Site in coordination with Ecology to assess groundwater conditions after the Source Property excavation. The results of that groundwater monitoring event led to adjustments from the EDR for treatment optimization at certain locations, as described in the Supplemental Groundwater Monitoring memorandum (Floyd|Snider 2025).

2.0 Contaminants of Concern, Cleanup Standards, and Remedial Action Objectives

Site contaminants of concern (COCs) comprise the chemicals that pose the greatest overall threat to human health and the environment due to toxicity, spatial distribution, and/or concentrations present. Cleanup standards for the COCs are protective of all active or potentially active exposure pathways at the Site, considering both current and future land use.

2.1 CONTAMINANTS OF CONCERN

The Site COCs were determined in the CAP (Ecology 2022a) and include the following:

- **Groundwater.** Tetrachloroethene (PCE) and toxic breakdown products of PCE (trichloroethene [TCE], *cis*-1,2-dichloroethene [DCE], and vinyl chloride); and arsenic.
- **Soil.** PCE and gasoline-range organics (GRO).

PCE and its breakdown products represent most of the contamination at the Site. Additional COCs, including arsenic in groundwater and GRO in soil, had comparatively rare detections at elevated concentrations and do not represent a significant exposure risk. These contaminants were therefore not used to define areas for cleanup action.

2.2 CLEANUP STANDARDS

The cleanup standards include a cleanup level (CUL) combined with a point of compliance (POC) where the CUL applies. Cleanup standards for the COCs are protective of all active or potentially active exposure pathways at the Site, considering both current and future land use.

2.2.1 Groundwater Cleanup Standards

Groundwater cleanup standards include CULs to be achieved by remediation and supplemental remediation levels (RELs) for protection of human health during remediation. The standard POC for groundwater, which applies to all groundwater COCs, is throughout the Site to the maximum depth where contamination from the Site is present. Compliance is determined for each groundwater monitoring well individually in accordance with Washington Administrative Code (WAC) 173-340-720(9)(c)(iv).

The Site groundwater CUL for arsenic is based on the natural background concentration (Ecology 2022b). The CULs for chlorinated volatile organic compounds (CVOCs) are based on Model Toxics Control Act (MTCA) Method A, which is protective of all pathways for a simple site with a single contaminant source (e.g., PCE releases from former dry cleaning operations). CULs for each groundwater COC are summarized in Table 2.1.

Table 2.1
Groundwater Cleanup Levels

Contaminant	CAS No.	CUL (µg/L)	CUL Basis	Toxicity Basis (1)
Total Metals				
Arsenic	7440-38-2	8.0	Background	Carcinogenic (2)
Chlorinated Volatile Organic Compounds				
PCE	127-18-4	5.0	MTCA Method A	Carcinogenic
TCE	79-01-6	5.0	MTCA Method A	Carcinogenic
cis-1,2-DCE	156-59-2	70	Federal MCL	Short-Term/Acute
Vinyl chloride	75-01-4	0.20	MTCA Method A	Carcinogenic

Notes:
1 In accordance with WAC 173-340-720(9)(c)(v), compliance with CULs will be determined using an upper percentile concentration for CULs based on short-term or acute toxic effects on human health or the environment, and the true mean concentration for CULs based on chronic or carcinogenic effects.
2 The lowest human-health risk-based criterion is protective of the cancer endpoint, which is adjusted upward to natural background (Ecology 2022b).

Abbreviations:
CAS Chemical Abstracts Service
MCL Maximum contaminant level
µg/L Micrograms per liter

Groundwater RELs based on vapor intrusion into a commercial building were additionally developed to aid in determining whether groundwater concentrations are protective of commercial activities on private property in areas overlying plumes while the remedy is in process. The RELs were calculated consistent with Section 4.4 of Ecology's vapor intrusion guidance (Ecology 2022c), assuming that workers are exposed for a duration of 45 hours per week for 50 weeks per year. Short-term RELs are presented in Table 2.2.

Table 2.2
Groundwater Remediation Levels for Vapor Intrusion

Contaminant	CAS No.	REL (µg/L)
PCE	127-18-4	120
TCE	79-01-6	12 (1)
Vinyl chloride	75-01-4	1.5

Note:
1 A short-term action level of 31 µg/L is additionally applicable for TCE and will be assessed by short-term performance monitoring (discussed in Section 5.0) where groundwater contamination may be present beneath buildings.

2.2.2 Soil Cleanup Standards

Soil cleanup standards are protective of unrestricted current and future land use for a site where the ecological exposure pathway is not active. The standard POC for soil is throughout the Site, up to the maximum depth where contamination from the Site is present. CULs for soil are summarized in Table 2.3.

Table 2.3
Soil Cleanup Levels

Contaminant	CAS No.	CUL (mg/kg)	CUL Basis
Chlorinated Volatile Organic Compounds			
PCE	127-18-4	0.050	Protection of Groundwater

Abbreviation:
mg/kg Milligrams per kilogram

2.2.3 Cleanup Action Components

The CAP identified the following components for the cleanup action, which are shown on Figure 1.1.

Soil Excavation and Off-Site Disposal. Shallow PCE contamination greater than proposed CULs in soil within the former dry cleaner Source Property was excavated in three distinct areas to depths ranging from 5 feet to 9.5 feet below ground surface (bgs), removing a total of approximately 551 cubic yards (992 tons) of PCE-contaminated soil. A layout of the completed excavation area is shown on Figure 1.1. In the deepest excavation area, zero-valent iron (ZVI) was mixed with saturated soil at the base of the excavation after removal of contaminated soil to promote degradation of CVOCs.

In Situ Groundwater Treatment. In situ groundwater treatment was conducted throughout the groundwater CVOC areas of concern (AOCs) to address CVOCs (specifically, PCE and vinyl chloride) at concentrations that were greater than their respective CULs. A mixture of colloidal activated carbon (PlumeStop©), sulfidated microscale ZVI (S-mZVI©), soluble organic carbon (AquiFix©), and *Dehalococcoides* bacterial cultures (Bio-Dechlor Inoculum [BDI Plus©]) was injected to create a series of five in situ groundwater treatment barriers and three supplemental treatment zones. In situ treatment barriers are designed to treat groundwater as it flows through saturated soil and were thus installed perpendicular to the direction of groundwater migration within the footprint of the CVOC plume. Supplemental treatment zones are designed to disperse additional treatment materials in key locations to support biotic degradation in areas of lesser CVOC concentrations or where supplemental biodegradation was expected to result in quicker attainment of cleanup levels. The layout of completed in situ groundwater treatment barriers and supplemental treatment zones is shown on Figure 1.1.

Monitored Natural Attenuation (MNA) and Groundwater Monitoring. MNA for groundwater is a component of the cleanup action within the CVOC AOCs, particularly those within rights-of-way (ROWs), where implementation of in situ injections is infeasible, after the removal of the soil source contamination. As part of MNA, post-remedy groundwater monitoring is required after the cleanup action implementation. The Groundwater Monitoring Plan is further discussed in Section 5.1.

Institutional Controls (ICs). ICs address remaining soil or groundwater contamination in the ROW as well as the potential for development or changes in land use on private properties where contamination is known or suspected to exist. The City signed a Memorandum of Agreement (MOA) with Ecology to address contamination in ROWs adjacent to contaminated sites. In accordance with the MOA, the City prepared a Contaminated Soil and Groundwater Protocol (Protocol) that is incorporated into the Bothell Design and Construction Standards. This Protocol acts as an IC for the remaining soil and groundwater contamination beneath Bothell Way NE. ICs are discussed further in Section 5.3.

3.0 Remedial Action Construction Implementation

This section describes the implementation of the cleanup action.

3.1 PROJECT TEAM ROLES AND RESPONSIBILITIES

The City was responsible for planning and implementation of the cleanup action. Floyd|Snider served as the Engineer and provided construction oversight to ensure that remediation contractors completed construction in accordance with the EDR, construction specifications, and applicable regulations. The remediation contractors were selected by public bid for each scope (excavation and injections). Titan Earthwork LLC (Titan) of Pacific, Washington, was the earthwork remediation contractor responsible for executing the excavation scope. Holt Services, Inc. (Holt) of Edgewood, Washington, was the remediation contractor responsible for executing the injection scope. Holt subcontracted Regenesis Remediation Solutions (RRS) as injection specialists to complete the injection scope.

3.2 PERMITS

Permits and other approvals to fulfill state requirements for the cleanup action included an Ecology-issued contained-in determination (CID) for PCE-contaminated soil disposal and an Ecology-issued Underground Injection Control (UIC) permit for injection of PlumeStop and other amendments for in situ groundwater treatment.

A CID allows environmental media that are contaminated with hazardous wastes listed under the Resource Conservation and Recovery Act (RCRA) to be handled and disposed of as nonhazardous waste, provided Ecology determines that the contaminant concentrations are less than risk-based screening levels. PCE is listed under RCRA under waste code F002, which includes spent halogenated solvents. The City received a CID from Ecology for PCE-contaminated soil to be excavated at the Site and disposed of at a Subtitle D facility as nonhazardous waste.

The UIC program is administered by Ecology to protect groundwater by regulating the discharge of fluids from underground injection wells. Registration under UIC is required for injection of reagents for groundwater treatment. The temporary injection points (IPs) were registered with Ecology as Class V UIC wells for cleanup sites. The City obtained the UIC permit prior to construction, which was presented as an appendix to the EDR.

Additional local permits applicable to the cleanup action (such as for hydrant and ROW use) were acquired as needed by the remediation contractors.

3.3 SITE PREPARATIONS

Site preparation for the cleanup action included establishing site controls and protecting or decommissioning subway structures as described in the following sections.

3.3.1 Site Controls

The City-owned Source Property is partially fenced along its southern property line and protected by concrete ecology blocks along its perimeter. During excavation, temporary fencing was extended along the unfenced property boundaries and connected with the partial permanent fence to control access by members of the public. The temporary fence encompassed all work areas including loading areas. The City additionally opted to enclose a portion of Lot E,F,G with temporary fencing during injection construction for the purposes of creating a secured equipment and material storage area.

3.3.2 Utilities and Monitoring Wells

Several underground structures, including utility lines and monitoring wells, were present in areas disturbed by the cleanup action construction. Limited surface utilities (including light poles/lampposts and fire hydrants) were also present in some work areas.

City-owned subsurface utilities in the vicinity of the cleanup action included storm, sanitary sewer, and water main lines and lateral service lines. Other utilities in the area include buried electrical main lines and gas lines owned by Puget Sound Energy, buried electrical service lines connected to streetlights and signals owned by the City, and buried electrical and gas service lines to buildings within the Site. The buried utility main lines were relatively new and were expected to be equipped with metallic tracer wires; therefore, the general remediation contractors (Titan, Holt) were responsible for locating underground utilities within 10 feet of ground-disturbing activities using electromagnetic methodology. When sanitary sewer lateral lines were not locatable with electromagnetic methods, a camera survey was performed to trace the alignment at the ground surface by equipping the camera equipment with a tracer wire. The sanitary sewer main line that runs east to west beneath the Ranch and Speedy Glass properties was not locatable with a camera survey and tracer wire. Potholing with a vac-truck was performed to locate that sewer line prior to performing adjacent injection work. A 3-foot buffer was always maintained between buried utilities and any ground-disturbing activities. Waste soil generated by potholing was managed as investigation-derived waste (IDW) and containerized for disposal (refer to Section 3.7.2). An updated utility plan showing cleanup action components is presented on Figure 3.1a-b.

Site monitoring wells were located on the Source Property, Ranch Drive-In property, Speedy Glass property, Lot E,F,G, and in the surrounding ROWs. A series of injection wells used for previous interim measures (IMs) were also located along the southern boundary of the Source Property. Wells on the Source Property required decommissioning if they fell within the potential maximum layback of excavation sidewalls. Injection wells, which were used for prior IMs, were determined not to be suitable for in situ treatment during the cleanup action. All injection wells that were able to be located, which included several wells within the excavation footprints, were also decommissioned as a best management practice (BMP).

Well decommissioning was performed prior to excavation by a licensed driller in accordance with the Washington State Minimum Standards for Construction and Maintenance of Wells (Minimum Standards; WAC 173-160). All Ecology tag ID numbers and construction details were

verified prior to decommissioning. Per the Minimum Standards, the casings of these wells were sealed to the ground surface with hydrated bentonite chips. Available well decommissioning logs are provided in Appendix A.

Several decommissioned utility lines were also encountered at depths above 4 feet bgs on the Source Property during excavation. After verifying the type and status of the decommissioned utilities, these lines were cut and capped at the excavation sidewalls in accordance with City construction standards. There were no field indications of contamination associated with any decommissioned utility lines.

3.3.3 Stormwater, Erosion, and Sediment Controls

Construction occurred during the wet season, which is defined as October 15 to May 15 in Ecology's Stormwater Management Manual for Western Washington (Ecology 2019), for both the 2023 excavation and the 2025 injections. The scope of work of primary concern for stormwater erosion and sediment control was excavation on the Source Property, which included removal of pavement and soil-handling activities. The total potential disturbed area of ground surface on the Source Property was less than 1 acre; therefore, coverage under the Construction Stormwater General Permit (CSGP) was not required for construction. However, the contractors implemented BMPs consistent with CSGP requirements to protect stormwater quality.

Prior to beginning excavation, Titan submitted a haul route plan and temporary erosion and sediment control plan for the Engineer's review to ensure that the requirements were met. BMPs were installed to control run-on and run-off of surface water within the planned excavation areas and to prevent commingling of stormwater with excavated soil. BMPs including silt fencing and straw wattles were installed along the perimeter of the work area. Titan additionally used plastic sheeting to protect any exposed ground surface that was not actively being worked and performed frequent sweeping of the work area. Truck traffic for hauling contaminated soil and importing clean fill at the Source Property was routed along the established haul route, protecting the ground surface and other improvements. Trucks entered and exited the haul route via Bothell Way NE using a haul route through the north-adjacent City-owned unpaved property. To construct the haul route, ground surface protection consisting of steel plates was placed on the unpaved ground surface.

All stormwater was captured or allowed to infiltrate within the work area and not allowed to enter catch basins. One catch basin underlying the southwest corner of the Source Property was plugged to allow for construction of a temporary construction entrance. The catch basins located on the western side of the access lane were protected with filter inserts as a precautionary measure to protect general stormwater quality.

During injection, filter inserts were installed the catch basins adjacent to paved work areas on private properties as a general BMP for increased equipment use and general traffic. The IPs were additionally sealed at the land surface with hydrated bentonite to prevent run-on of stormwater into injection site locations.

3.3.4 Spill Controls

Releases of hazardous or potentially dangerous substances had potential to occur during construction activities. The hazardous substances of primary concern were CVOCs, which were the COCs present in Site media that were targeted during the cleanup action. BMPs implemented to limit the spread of contaminated soil during contaminated soil handling and disposal are presented in further detail in Section 3.3.3; BMPs to limit the spread of water potentially contaminated with CVOCs are presented in this section.

During injection, Holt and RRS monitored for surfacing and adjusted flow rates and injection pressures to minimize surfacing. Injection surfacing occurs when the subsurface cannot accommodate the volume or pressure of the injected materials (injectate), forcing them toward the surface via the annular space of the borehole or nearby preferential pathways such as monitoring wells. Because the injectate comes into contact with Site groundwater, the surfaced injectate has the potential to contain CVOCs. When surfacing was observed, the injectate was immediately captured using a wet-vac and additional spill controls such as sorbent socks were deployed around the IPs. Injectate captured in this manner was handled as IDW and containerized in 55-gallon steel drums, as described in Section 3.7.2.

Additional hazardous or potentially dangerous substances that had potential to be released during the cleanup action included fuels and hydraulic oils used in construction and drilling equipment. The chemical components of the in situ treatment barriers, consisting of liquid activated carbon and S-mZVI, are not considered hazardous to human health or the environment. However, these components had potential to create nuisance conditions or cause public concern if spills, injectate surfacing, or accidental discharges occurred. A Spill Prevention and Emergency Countermeasure Plan (SPECP) to address spills of fuels and other chemicals used during the cleanup action was presented as an appendix to the EDR. Prior to beginning construction, spill control devices and countermeasures were mobilized to the Site by the remediation contractors in accordance with the SPECP.

During all scopes of work, equipment fueling was conducted off-site or within areas with appropriate spill containment. Spill kits were kept in accessible locations on-site at all times.

3.4 ENGINEERING OVERSIGHT

Oversight of the cleanup action construction was performed on behalf of the City to ensure that all aspects of the work were performed in accordance with the EDR (Floyd|Snider 2023). Engineering oversight was performed by a qualified technician under the direct supervision of the Engineer.

The technician performing oversight maintained a daily log of work performed under the EDR and submitted Inspector's Daily Reports to the City, including but not limited to the following information:

- Construction techniques and equipment used
- Roles and qualifications of personnel present on-site

- Types and quantities of materials exported and imported
- Quantities and intervals of amendments injected
- Design verification measurements and test results
- Samples of environmental media collected
- Health and safety protocols and monitoring results
- Corrective actions performed to address work not meeting the standards of the EDR
- Site visits or inspections performed by the City or Ecology

3.5 HEALTH AND SAFETY

The cleanup action construction work described complied with the health and safety standards prescribed by the Occupational Health and Safety Act (OSHA) and the Washington Industrial Safety and Health Act. The project-specific Health and Safety Plan (HASP) is presented as an appendix to the EDR. This plan includes emergency contacts and response, chemical and physical risk analysis, site controls, and monitoring. A copy of the HASP was stored on-site, and visitors entering the work area were required to review and sign the project-specific HASP. All work was performed by remediation contractors with active Hazardous Waste Operations and Emergency Response (HAZWOPER) certifications, first aid and cardiopulmonary resuscitation, and all applicable task training for the work required.

Because the work had high public interest and had potential to impact the community while being conducted, appropriate site control measures were maintained in all work areas to limit access during and after work hours. Site control measures included the site perimeter fence, sidewalk/access closures, caution tape, and informational signage.

The Health & Safety Officer visually inspected the Site during active excavation work at least daily to identify any potential hazards. Additional monitoring was conducted during injection when moving between barriers and setting up work zones, when working in ROWs, and during increases in third-party activity outside the Site. If new potential hazards were identified, immediate measures were taken to eliminate or reduce the risks associated with these hazards. No safety incidents occurred during the cleanup action construction.

Site perimeter noise and air monitoring was conducted to ensure that populated areas adjacent to the Site were not negatively affected by work involving contaminated soil and heavy machinery. Refer to Section 5.0 of the HASP for relevant monitoring and action levels. No action levels were exceeded during cleanup action construction.

3.6 CONTAMINATED SOIL EXCAVATION

The excavation cleanup action on the Source Property, from Site mobilization to Site demobilization, took place between November 28, 2023, and January 3, 2024. Contaminated soil excavation was performed in December 2023 in three areas designated Area A, Area B, and Area C, as shown on Figure 1.1. Summaries of the completed excavations are presented in the following sections.

3.6.1 Excavation Methodology

Excavation on the Source Property removed a total of 551 cubic yards (992 tons) of PCE-contaminated soil. The excavation areas were sufficiently far from the City ROWs that the excavation sidewalls were stabilized by sloping without the use of shoring. The sidewall slopes did not exceed a maximum slope of 1:1.

The seasonal high-water table on the Source Property, occurring in the late winter to early spring, had historically been measured between 8.5 feet and 10 feet bgs. The maximum depth of excavation was approximately 10 feet bgs. Groundwater accumulation was observed in the bottom approximate 1 foot of the deepest excavation area and dewatering was not required to complete the excavation. As an additional measure to ensure that soil was dry for loading and disposal, when possible, contaminated soil excavation was scheduled for days when precipitation was not forecasted.

Excavation was completed to remove all identified soil with PCE exceeding the CUL on the Source Property. Confirmation samples were collected by direct-push drilling and test pits prior to construction to document that the excavation encompassed the full lateral and vertical extents of soil with PCE concentrations exceeding the CUL. Advance collection of confirmation samples was performed to support the CID, which required an exact tonnage to be excavated for disposal approval. Confirmation sampling details are discussed in further detail in Section 4.3.

Titan was responsible for determining the pre- and post-excavation elevations at each control point to confirm that the specified depth was achieved throughout each excavation area. Upon confirmation that the excavation extents were achieved, the excavations were backfilled and compacted, as described in Section 3.9. Additional details for each of the three excavation areas are described in the following sections.

3.6.1.1 Excavation Area A

Excavation Area A was located in the northwest portion of the Source Property and the final extents were defined by control points, designated A1 through A6 and A-B1, as shown on Figure 3.2.

The footprint of Area A was 210 square feet and the required depth of excavation at the extents defined by the control points was 5.5 feet below the lowest surrounding ground surface. The total removed soil volume was 78 cubic yards. The sidewall perimeter of Area A measured 55 linear feet.

3.6.1.2 Excavation Area B

Excavation Area B was located near the center on the east side of the Source Property, and the final extents were defined by control points, designated B1 through B5 and B-B1, as shown on Figure 3.3.

The footprint of Area B was 130 square feet with a required depth of 5 feet below the lowest surrounding ground surface at the limits defined by the control points. The total removed soil volume was 53 cubic yards. The sidewall perimeter of Area B measured 46 linear feet. A portion of the Area B sidewall slope abutted the sidewall slope of Excavation Area C.

3.6.1.3 Excavation Area C

Excavation Area C was located in the southern portion of the Source Property and the final extents were defined by control points, designated C1 through C7, PP-7, PP-24, and C-B1, as shown on Figure 3.4.

The footprint of Area C was 570 square feet with a required depth of 9.5 to 10 feet below the lowest surrounding ground surface. The total removed soil volume of was 420 cubic yards. The sidewall perimeter of Area C measured 112 linear feet.

At the base of Area C, where elevated CVOC concentrations were additionally present in shallow groundwater, application of ZVI was performed after excavation of contaminated soil. A quantity of 2,500 pounds of S-mZVI was added evenly within the mixing area and incorporated into saturated-zone soil from the excavation base to a depth of 15 feet bgs using an excavator bucket to turn over and work the soil. Mixing was performed at the direction of the Engineer until the ZVI was evenly distributed into the soil by visual inspection.

3.6.2 Soil Handling and Disposal

BMPs were implemented during contaminated soil handling to prevent the spread of contamination. BMPs for excavation included the following:

- Contaminated soil was direct loaded to trucks or roll-off containers; no stockpiles of contaminated soil were stored on-site.
- Loading was performed only where ground surface protection was installed. When loading was performed in paved areas of the Source Property, regular sweeping was performed. Other ground surface protection was regularly cleaned and secured at the end of each workday.
- All trucks were lined prior to loading with contaminated soil.
- Trucks used the established haul route and covered their loads before entering the City ROW.

Contaminated soil was hauled off-site for disposal as contained-in waste in accordance with the CID provided by Ecology. Soil was hauled via truck to the Republic Services facility in Seattle, Washington, for transfer to rail and transportation to Roosevelt Regional Landfill, a Subtitle D licensed facility. Contaminated soil disposal summaries issued by Republic Services are provided in Appendix B.

3.6.3 Stockpile Management

Stockpiles were maintained for uncontaminated materials only (i.e., clean backfill and recyclable concrete and asphalt); contaminated soil was never stockpiled at the Site. Uncontaminated stockpiles could be stored in paved areas. Stockpiles were managed in accordance with the Stormwater Management Manual for Western Washington (Ecology 2019). Stockpiles were covered and stabilized to prevent erosion at the following times:

- When the stockpile would remain unworked for more than 48 hours.
- When rain was forecast overnight between working days.

3.6.4 Recycling

Recyclable materials generated during construction included sections of asphalt and concrete pavement removed for excavation preparation. Asphalt and concrete were hauled off-site for recycling at Heidelberg Materials in Woodinville, Washington, and Kangley Rock & Recycling in Seattle, Washington. Asphalt and concrete disposal tickets are provided in Appendix B.

3.6.5 Survey

During excavation, Titan located the excavation control points to the nearest 0.1 horizontal feet by survey. Titan subcontracted a licensed land surveyor to survey the pre-excavation ground surface and verify the final excavation depth to the nearest 0.1 feet bgs at the control points using a survey transit. Post-excavation survey was also submitted by Titan in accordance with the project specifications; however, this survey was performed 2 days after excavation completion, during which time sloughing occurred below the water table in Excavation Area C. Therefore, the City elected to accept the field transit survey as the more accurate measure of the final excavation extents. The volumes of soil approved in the CID are considered to be accurate.

3.7 IN SITU GROUNDWATER TREATMENT INJECTION

The following sections describe the alignment and injection details for the installation of downgradient in situ groundwater treatment barriers completed between September 29, 2025, and November 23, 2025. Injections consisted of the following applications:

- **In Situ Treatment Barriers.** In situ groundwater treatment was implemented in both shallow and deep groundwater by installation of five treatment barriers (Barriers 1 through 5). In situ treatment barriers are designed to treat groundwater as it flows through saturated soil where the treatment materials have been applied and were therefore installed perpendicular to the direction of groundwater migration within the footprint of the CVOC plume (Figure 1.1). The in situ treatment barriers ranged between lateral lengths of 80 and 130 feet and treatment depth intervals of 13 and 23 vertical feet thickness, with IPs installed at 6.5-foot intervals in two offset rows to obtain an effective spacing of 3.25-feet center to center. Treatment barriers were composed of PlumeStop, S-mZVI, Aquifix, and BDI Plus.

- **Supplemental Treatment Zones.** Targeted supplemental treatment zones are designed to disperse additional treatment materials in key locations to support biotic degradation in areas of lesser CVOC concentrations or where supplemental biodegradation was expected to result in quicker attainment of cleanup levels. Supplemental treatment zones were implemented by installing IPs at 10-foot intervals in three zones (TZ 1 through 3). Supplemental treatment zone injections were composed of AquiFix, S-mZVI, and BDI Plus.

The in situ treatment barrier and supplemental treatment zone IPs are shown on Figure 3.1a-b. The injection details are presented in Table 3.1.

Prior to beginning in situ injections, Holt was required to survey the control points defining each barrier and supplemental treatment zone point to the nearest 0.1 horizontal feet. Survey of each barrier IP was not required; however, RRS field surveyed the locations of individual IPs using a sub-meter Global Navigation Satellite Systems device. Additionally, the Engineer coordinated with Holt and RRS to document any points modified due to injectate surfacing and the presence of utilities or other subsurface obstructions. The RRS injection summary report is attached as Appendix C. Minor adjustments to injection layout are described in the following sections.

3.7.1 Injection Methodology

Treatment fluids were injected into the subsurface through a series of direct-push borings to create a passive treatment zone of chemical reduction and bioremediation. The application of treatment components appropriate for the contaminated thickness in the saturated zone; CVOC mass, distribution, and flux; and baseline geochemical conditions of each in situ treatment barrier and supplemental treatment zone is discussed in detail in Section 3.7.1.1 through Section 3.7.1.8.

The final treatment design reflected improvements in groundwater quality due to PCE source soil excavation, including ZVI soil mixing, which was completed in December 2023 on the Source Property. Because the implementation of downgradient in situ treatment barriers was delayed while the City secured easements to access the two privately owned properties (Ranch Drive-In and Speedy Glass), the effects of ZVI soil mixing were able to be observed during the 2024 supplemental groundwater monitoring event in the vicinity of in situ treatment Barrier 2 and supplemental treatment zones TZ 1 and TZ 2. Recommended adjustments from the EDR to the treatment components were summarized in a Supplemental Groundwater Monitoring memorandum (Floyd|Snider 2025).

Treatment components were batch-mixed with potable water to achieve the design dosages at an injection volume of 20.2 to 35 gallons per vertical foot. Water is used to help transport the treatment components within the pore spaces of the saturated zone to achieve the desired radius of influence and even distribution of the materials. The amount of added water was reduced in the field if needed to minimize injectate surfacing in coordination with the Engineer. In all locations, injection verification testing (refer to Section 4.3) indicated that the design radius of influence was

achieved at the reduced injectate water volumes. Due to adjustments to the amount of mixed water, gallons per point (GPP) injected deviated from the EDR in four of five barriers; however, the treatment component dosages were implemented consistent with the EDR. Refer to Table 3.1 for a summary of injection details for each barrier and treatment zone.

Fluids were injected at each location under low pressure using a direct-push drill rig to provide even distribution of treatment media within the target treatment zone. Injection cross sections for the in situ treatment barriers and supplemental treatment zones are shown on Figure 3.5 and 3.6.

3.7.1.1 Barrier 1

Barrier 1 consisted of 25 IPs, was 80 feet in length, and was injected from 9 to 22 feet bgs. Injections at Barrier 1 began October 31, 2025, and concluded November 6, 2025. The Barrier 1 line was field adjusted so that the drill rig could access all IPs evenly. At Barrier 1, where previous IMs were completed and groundwater conditions were generally reducing, treatment consisted of 6,000 pounds PlumeStop, 800 pounds S-mZVI, and 8.0 liters (L) BDI Plus. Treatment media dosage rates for Barrier 1 were as follows:

- PlumeStop dosing of approximately 18 pounds per vertical foot
- S-mZVI dosing of approximately 2.5 pounds per vertical foot
- BDI Plus dosing of approximately 0.025 L per vertical foot

The total volume applied was 11,375 gallons.

3.7.1.2 Barrier 2

As a result of the ZVI soil mixing described in Section 3.6.1.3, PCE concentrations in the area upgradient of Barrier 2 declined to less than CULs, and only vinyl chloride remained at concentrations exceeding the CUL (Floyd|Snider 2025). Given that the remaining contamination to be addressed was vinyl chloride, which is not readily degraded abiotically by S-mZVI, biotic reductive dechlorination was the preferred mechanism for treatment of vinyl chloride. Therefore, soluble organic carbon (AquiFix) was added in Barrier 2 to promote biotic degradation and S-mZVI was not added.

Barrier 2 consisted of 40 IPs, was 130 feet in length, and was injected from 7 to 27 feet bgs. Injections at Barrier 2 began November 7, 2025, and concluded November 23, 2025. In accordance with the access agreements, all Barrier 2 IPs located on private properties (Ranch Drive-In and Speedy Glass) were completed overnight. The Barrier 2 line was field adjusted to avoid an active sewer utility line in the Ranch Drive-In parking lot (refer to Figure 3.1b). Due to active utility corridors in the ROW access lane, the designed point spacing could not be achieved near the western extent of Barrier 2. The decision was made, with Engineer approval, to condense four IPs together with an adjacent IP (for example IP-2-6 and IP-2-7 were condensed into IP-2-6/7). Each condensed IP (IP-2-1/2, IP-2-6/7, IP-2-9/10, and IP-2-11/12) received double the amount of remediation amendments but no additional water. IPs are referenced in series from west to east and the wider IP spacing due to condensing of points is reflected on Figure 3.1b. Some IPs in

Barrier 2 received a gradual reduction of water in the mixture decreasing volume applied from 700 GPP to 300 GPP. For additional details regarding deviations from the injection design, refer to Appendix C. Treatment consisted of 3,600 pounds AquiFix, 12,000 pounds PlumeStop, and 18.0 L BDI Plus. Treatment media dosage rates for Barrier 2 were as follows:

- AquiFix dosing of approximately 4.5 pounds per vertical foot
- PlumeStop colloidal carbon dosing of approximately 15 pounds per vertical foot
- BDI Plus dosing of approximately 0.023 L per vertical foot

The total volume applied was 17,870 gallons.

3.7.1.3 Barrier 3

Barrier 3 consisted of 25 IPs, was 80 feet in length, and was injected from 7 to 30 feet bgs. Barrier 3 injections began October 4, 2025, and concluded October 26, 2025. Barrier 3 was reduced from 805 GPP to 575 GPP for the entire barrier by decreasing the volume of water in the mixture. Barrier 3 was situated in the transition zone from shallow to deep PCE and geochemical conditions were generally oxidizing. Treatment consisted of 11,600 pounds PlumeStop, 3,100 pounds S-mZVI, 3,100 pounds AquiFix, and 13.0 L BDI Plus. Treatment media dosage rates for Barrier 3 were as follows:

- PlumeStop dosing of approximately 20 pounds per vertical foot
- S-mZVI dosing of approximately 5.4 pounds per vertical foot
- AquiFix dosing of approximately 5.4 pounds per vertical foot
- BDI Plus dosing of approximately 0.023 L per vertical foot

The total volume applied was 14,375 gallons.

3.7.1.4 Barrier 4

Barrier 4 consisted of 31 IPs, was 100 feet in length, and was injected from 15 to 35 feet bgs. Barrier 4 injections began October 9, 2025, and concluded October 30, 2025. Barrier 4 was reduced from 700 GPP to 400 GPP for the entire barrier by decreasing the volume of water in the mixture. The Barrier 4 line was field adjusted to account for a wooden structure located within original barrier placement. Barrier 4 was situated in the transition zone from shallow to deep PCE and geochemical conditions were generally oxidizing. Treatment consisted of 12,400 pounds PlumeStop, 3,300 pounds S-mZVI, 3,300 pounds Aquifix, and 14.0 L BDI Plus. Treatment media dosage rates for Barrier 4 were as follows:

- PlumeStop dosing of approximately 20 pounds per vertical foot
- S-mZVI dosing of approximately 5.3 pounds per vertical foot
- AquiFix dosing of approximately 5.3 pounds per vertical foot
- BDI Plus dosing of approximately 0.023 L per vertical foot

The total volume applied was 12,520 gallons.

3.7.1.5 Barrier 5

Barrier 5 consisted of 31 IPs, was 100 feet in length, and was injected from 31 to 51 feet bgs. Barrier 5 injections began September 30, 2025, and concluded October 17, 2025. Barrier 5 received a gradual reduction of water in the mixture by decreasing volume applied from 700 GPP to 500 GPP for the entire barrier. In Barrier 5, which was situated in the deep aquifer zone along the downgradient toe of the plume, CVOC flux rates were relatively lower than in the transition zone and conditions were generally oxidizing. In this area, required quantities of PlumeStop were less than in the transition zone; however, a sufficient quantity of S-mZVI was still needed to create reducing conditions and promote anaerobic dechlorination. Treatment consisted of 10,000 pounds PlumeStop, 3,300 pounds S-mZVI, and 14.0 L BDI Plus. Treatment media dosage rates for Barrier 5 were as follows:

- PlumeStop dosing of approximately 16 pounds per vertical foot
- S-mZVI dosing of approximately 5.3 pounds per vertical foot
- BDI Plus dosing of approximately 0.023 L per vertical foot

The total volume applied was 17,341 gallons.

3.7.1.6 Treatment Zone 1

After ZVI soil mixing on the Source Property, PCE concentrations declined to less than the CUL or were not detected at two monitoring wells upgradient of the Ranch Drive-in Property and vinyl chloride also decreased. Based on these results, TZ 1 was relocated farther upgradient into the ROW (NE 183rd Street) to increase dispersion of the mobile treatment material into the remaining vinyl chloride plume, which was present at relatively low concentrations

TZ 1 consisted of four IPs, was 40 feet in length, and was injected from 7 to 18 feet bgs. TZ 1 injections began and were completed November 13, 2025. At TZ 1, upgradient of the Ranch Drive-In and Speedy Glass properties, geochemical conditions were reducing. Supplemental treatment was intended to promote complete biodegradation. Treatment consisted of 500 pounds S-mZVI (to promote continued reducing geochemical conditions), 1,200 pounds AquiFix, and 4.0 L BDI Plus. Treatment media dosage rates were as follows:

- S-mZVI dosing of approximately 11.4 pounds per vertical foot
- AquiFix dosing of approximately 27 pounds per vertical foot
- BDI Plus dosing of approximately 0.091 L per vertical foot

The total volume applied was 1,980 gallons.

3.7.1.7 Treatment Zone 2

Based on the results of ZVI soil mixing, TZ 2 was also relocated farther upgradient into the ROW (NE 183rd Street).

TZ 2 consisted of four IPs, was 40 feet in length, and was injected from 6 to 18 feet bgs. TZ 2 injections began and were completed November 12, 2025. At TZ 2, upgradient of the Ranch Drive-In and

Speedy Glass properties, geochemical conditions were reducing. Supplemental treatment was intended to promote complete biodegradation. Treatment consisted of 500 pounds S-mZVI (to promote ongoing reducing geochemical conditions), 1,200 pounds AquiFix, and 5.0 L BDI Plus. Treatment media dosage rates were as follows:

- S-mZVI dosing of approximately 10.4 pounds per vertical foot
- AquiFix dosing of approximately 25 pounds per vertical foot
- BDI Plus dosing of approximately 0.10 L per vertical foot

The total volume applied was 2,160 gallons.

3.7.1.8 Treatment Zone 3

TZ 3 consisted of six IPs, was 60 feet in length, and was injected from 20 to 40 feet bgs. TZ 3 injections began October 6, 2025, and concluded October 7, 2025. TZ 3 was reduced from 900 GPP to 700 GPP for the entire zone by decreasing the volume of water in the mixture. At TZ 3, in the downgradient portion of the plume on Lot E,F,G, bioremediation appeared to be occurring at the toe of the plume. However, elevated PCE remained in groundwater and conditions were generally oxidizing. In this area, supplemental treatment was intended to enhance biodegradation and achieve faster remediation of the downgradient plume. Treatment consisted of 1,500 pounds S-mZVI (to create reducing chemical conditions and to achieve supplemental abiotic degradation), 4,000 pounds AquiFix, and 9.0 L BDI Plus. Treatment media and dosage rates were as follows:

- S-mZVI dosing of 12.5 pounds per vertical foot
- AquiFix dosing of approximately 33 pounds per vertical foot
- BDI Plus dosing of 0.075 L per vertical foot

The total volume applied was 4,200 gallons.

3.7.2 Investigation-Derived Waste Management

IDW was generated during implementation of the cleanup action and included soil cuttings, surfaced injectate, decontamination wash water, and purge water produced during injection implementation and monitoring. Waste water and soil cuttings had the potential to contain CVOC contamination.

Waste water, surfaced injectate, and soil cuttings were containerized in U.S. Department of Transportation-approved 55-gallon steel drums, labeled with their contents and were temporarily stored on City-owned property (Lot E,F,G) pending profiling. IDW drums were disposed of off-site at a licensed Subtitle C Facility, Chemical Waste Management in Arlington, Oregon, on February 22, 2026. IDW waste disposal manifests are included in Appendix B.

3.8 DECONTAMINATION

Decontamination procedures were strictly followed to prevent the spread of contamination. All construction and drilling equipment was decontaminated before it left the Site. Decontamination procedures were additionally implemented for equipment when moving between handling contaminated and uncontaminated media (such as using an excavator bucket to remove contaminated soil, then using the bucket to place backfill) and when moving between in situ barrier IPs.

Equipment and vehicle decontamination consisted of dry sweeping to achieve a visually debris-free surface. If dry sweeping was not sufficient to remove visual evidence of debris, equipment was decontaminated by pressure washing with detergent solution followed by a potable water rinse. Direct-push drill rods were decontaminated by pressure washing with a detergent solution followed by a potable water rinse.

Equipment decontamination wash water was captured and not allowed to run onto the ground surface. Decontamination wash water was managed as IDW according to the procedures for waste water management as described in Section 3.7.2.

3.9 SITE RESTORATION AND DEMOBILIZATION

Site restoration consisted of backfilling excavated and disturbed areas with suitable clean materials, repairing pavement, and demobilizing equipment and temporary materials and structures.

Excavations were backfilled with material with chemical quality suitable for unrestricted property use and grain size gradation to allow compaction per the City's construction standards. The applicable standard is 90% of maximum dry density according to the Modified Proctor test method (Bothell Design and Construction Standards Section 4-4.3). Excavations were backfilled and compacted in 1-foot lifts to the surrounding subgrade elevation, then paved with asphalt to match the surrounding grade.

Titan provided laboratory analytical results to the City for backfill material showing that regulated contaminants were not detectable at reporting limits less than the applicable MTCA criteria. Results are attached as Appendix D.

Direct-push IPs were sealed with hydrated bentonite chips in accordance with the Minimum Standards for decommissioning of direct push borings (WAC 173-160-460(2)(d)) after injection was completed and the drill rods were removed. After the IPs were sealed, the disturbed area was restored to be consistent with the surrounding ground surface (i.e., gravel or concrete). Concrete paver blocks temporarily removed for installation of IPs in the access lane ROW were replaced and set level with the surrounding pavers. Vac-truck pothole locations were backfilled with clean fill, compacted, and then paved with hot mix asphalt to match the surrounding grade.

After completion of construction activities, all equipment was demobilized and temporary structures were removed. Temporary fencing was removed and concrete ecology blocks were restored at the Source Property. Any vegetated areas damaged by construction activities were reseeded and/or stabilized with mulch, at the City's direction.

4.0 Construction Compliance Monitoring

This section presents the Compliance Monitoring Plan implemented during construction, consisting of protection monitoring for health and safety, performance monitoring to ensure quality control during implementation of the remedial technologies, and confirmation monitoring to ensure cleanup standards are met.

4.1 PROTECTION MONITORING

The primary concerns for protection monitoring for both community and worker exposures were high noise levels and volatile organic compounds (VOCs) in the air during construction work.

Noise levels and ambient air concentrations of VOCs were monitored at the Source Property during excavation, in addition to the engineering and administrative controls outlined in the HASP to ensure they remained under the OSHA-permissible exposure limits for those working in proximity. Air monitoring was performed using a photoionization detector, and qualitative noise monitoring was performed at the Site perimeter (using a standard of being able to conduct a conversation at normal volume).

Qualitative noise monitoring was also performed during all injection work. For the injection and potholing work that needed to be conducted overnight due to the access agreements, noise levels were a concern. Equipment modifications including use of an electric jackhammer, electric generator, and acoustic curtain noise barriers were implemented as outlined in Holt's Noise Abatement Plan. All noise monitoring aligned with the provisions in the HASP, which was included as an appendix to the EDR. Action levels were not exceeded during construction activities.

The need for additional protection monitoring for vapor intrusion in the current commercial-use buildings at the Site will be continually assessed over the restoration time frame for groundwater after injection of in situ treatment barriers. Vapor intrusion monitoring after construction is discussed in further detail in Section 4.2.

4.2 PERFORMANCE MONITORING

Performance monitoring during construction included compaction and verification testing, surveying, and documentation to ensure that the implementation of the remedial technologies and actions were effectively applied.

During excavation, performance monitoring included completing surveys to verify that the minimum horizontal and vertical limits of PCE-contaminated soil were removed (refer to Figures 3.2 to 3.4). Once excavations reached the extent where confirmation monitoring via soil sampling (refer to Section 4.3) indicated that the cleanup standards for PCE were met, the excavation areas were backfilled and compacted. During backfilling, Titan performed compaction testing to ensure that the final backfilled area met City standards for compaction, as described in Section 3.9.

During in situ treatment barrier injection, the weights/volumes of each component when batch-mixing the aqueous injection solution, as well as the volume of solution injected in each interval of the barrier/treatment zone, were recorded by RRS (refer to Appendix C). Periodic verification testing of soil and groundwater within the injection zone was also performed as directed by RRS or the Engineer. Soil verification testing was performed by advancing a direct-push boring within the barrier after completion of the injection and installing a temporary piezometer. Adequate dispersion of treatment barrier in soil and groundwater in the target treatment zone was visually assessed by noting color change to dark gray/black caused by liquid activated carbon and S-mZVI. The IP spacing was occasionally field adjusted, and sometimes two IPs were combined into one, at the approval of the Engineer if there were buried utilities or injectate surfacing issues in the area, with corresponding adjustment made to the quantities of treatment components and/or water injected per depth interval at each point, to ensure consistent and even application of the specified quantities of treatment components required for each barrier.

Groundwater verification samples were collected using a peristaltic pump when injecting within 10 feet of a well screened within the treatment zone. Temporary piezometers were also installed with screened intervals within the target treatment zone for verification sampling when nearby suitable wells were not available. Primary verification monitoring was done via visual colorimetric analysis, using a standard of a known quantity of PlumeStop (which is dark gray to black in color) to determine the concentration of PlumeStop in the purged groundwater. Other geochemical indicators of successful in situ treatment barrier injections (such as dissolved oxygen [DO], conductivity, and oxidation−reduction potential [ORP]) were monitored during injection, because visual indications of PlumeStop in groundwater were often accompanied by a steep drop in DO and ORP. DO and ORP will also be collected as field parameters during subsequent short-term groundwater performance monitoring completed after in situ groundwater treatment injections, as described in Section 5.1.

4.3 CONFIRMATION MONITORING

Confirmation monitoring consisted mostly of collection of soil samples for chemical analysis prior to construction to ensure that the CUL for PCE would be met at the limits of the Source Property excavations. Excavation was completed to remove all identified soil with PCE exceeding the CUL on the Source Property. Many confirmation samples were collected by direct-push drilling and test pits prior to construction to fully delineate the extents of contamination. Additional confirmation sampling was conducted via test pits immediately prior to mass excavation.

A total of one base and two sidewall samples defined the extents of soil removal to achieve CULs in Area A. A total of one base and two sidewall samples defined the extents of soil removal to achieve CULs in Area B. A total of three base and three sidewall samples defined the extents of soil removal to achieve CULs in Area C. The PCE concentrations, sample depths, and locations of samples used for confirmation in each excavation area are presented on Figure 4.1.

Soil confirmation samples were collected and analyzed for PCE in accordance with the procedures presented in the Quality Assurance Project Plan (QAPP), which was as an appendix to the EDR. All soil confirmation sample results were less than the MTCA Method A CUL for PCE (Table 4.1).

4.4 CULTURAL RESOURCE MONITORING

The Washington State Department of Archaeology and Historic Preservation's predictive model on the Washington Information System for Architectural and Archaeological Records Data characterized the project area for the Site as high to moderate risk for containing buried archaeological materials including historical and prehistoric or pre-contact features and artifacts. During all ground-disturbing activities, the field technician monitored for cultural resources in accordance with the Inadvertent Discovery Plan provided as an appendix to the EDR. No cultural resources were identified during the cleanup action.

4.5 PRELIMINARY OPINION FROM THE ENGINEER

Based on the initial testing results and inspections, the cleanup action is a comprehensive final remedy for the Site that is compliant with all the applicable remedy selection requirements under MTCA provided in WAC 173-340-360(2)(a) and WAC 173-340-360(2)(b) as well as the remedial action objectives for the Site, as described in the CAP (Ecology 2022a). Together, the individual technologies removed source contaminant mass in soil by excavation and continue to remove contaminants in groundwater through adsorption and degradation. Key Site photographs documenting the completion of the cleanup action are provided as a photograph log in Appendix E.

A final opinion from the Engineer will be issued after completion of short-term performance monitoring, operation, and maintenance as described in Section 5.0.

5.0 Short-Term Performance Monitoring, Operation, and Maintenance

The following sections describe the ongoing short-term monitoring, operation, and maintenance activities that are to be performed for the first year after the completion of construction of the cleanup action, including soil excavation and in situ groundwater treatment injection, as described in Section 3.0. Due to the 2-year delay in starting treatment injections, an interim groundwater monitoring event was conducted in 2024, the results of which led to adjustments from the EDR in treatment amendments (Floyd|Snider 2025). After short-term monitoring, a long-term compliance monitoring plan will be developed to evaluate and ensure that the cleanup achieved the remedial action objectives for the Site.

5.1 GROUNDWATER PERFORMANCE MONITORING

This section presents short-term performance monitoring that will be implemented for the first year after installation of the in situ treatment components to assess the performance of the barriers in removing and degrading CVOCs and to determine whether any additional treatment will need to be implemented.

5.1.1 Well Installation

New monitoring wells were installed in October 2025 to fill in key monitoring areas to complete the monitoring well network. The well screens were situated to monitor CVOC conditions in groundwater within the most highly contaminated pre-remediation intervals. The well screens were adjusted in the field to target more-transmissive units, if encountered, within the in situ treatment zone. The newly installed performance monitoring wells are shown on Figure 5.1 and include the following:

- One shallow well (UCCMW-37) downgradient of Barrier 1. The treatment zone monitored by this location is 9 to 22 feet bgs, and the well screen was installed approximately 10 to 20 feet bgs.
- One shallow well (UCCMW-38) downgradient of Barrier 2. The treatment zone monitored by this location is 7 to 27 feet bgs, and the well screen was installed approximately 9.5 to 19.5 feet bgs.
- One shallow well (UCCMW-39) upgradient of Barrier 3. The treatment zone monitored by this location is 7 to 30 feet bgs, and the well screen was installed approximately 17 to 27 feet bgs.
- One deep well (UCCMW-40D) downgradient of Barrier 4. The treatment zone monitored by this location is 15 to 35 feet bgs, and the well screen was installed approximately 20 to 30 feet bgs.
- One deep well (UCCMW-41D) upgradient of Barrier 5. The treatment zone monitored by this location is 30 to 50 feet bgs, and the well screen was installed approximately 39 to 54 feet bgs.
- One deep well (UCCMW-42D) was screened approximately 37 to 52 feet bgs downgradient of Barrier 5 at the toe of the plume.

The new wells were installed, developed, and surveyed in accordance with the procedures in the QAPP, which was presented as an appendix to the EDR. Boring and well completion logs are attached as Appendix F.

5.1.2 Groundwater Sampling and Analysis

Groundwater monitoring will be conducted in accordance with the Floyd|Snider standard guidelines for Low-Flow Groundwater Sampling, which was included as an attachment to the QAPP appendix of the EDR and will involve collecting groundwater samples and/or groundwater elevation measurements at the locations shown on Figure 5.1.

Samples will be analyzed in accordance with the QAPP presented in the EDR, for all or a subset of the following chemicals as specified in Table 5.1:

- CVOCs: PCE, TCE, *cis*-1,2-DCE, *trans*-1,2-DCE, and vinyl chloride
- Secondary geochemical parameters for assessment of natural attenuation (also known as MNA parameters): anions (nitrate, nitrite, and sulfate), sulfide, ferrous iron, and dissolved gases (ethene, ethane, and methane)
- CVOCs analysis at all locations to assess both cross- and within-barrier contaminant removal and degradation performance; MNA parameters additionally analyzed at locations between the barriers to determine whether the treatment components are achieving the desired geochemical conditions for anaerobic dechlorination; and field water quality parameters including ORP, DO, pH, temperature, and turbidity additionally collected during sampling at all locations to provide additional information for assessment of MNA

Groundwater monitoring will be conducted semiannually during year 1 at the following performance wells:

- UCCMW-7 to monitor degradation in the shallow zone beneath the Ranch Drive-In building
- UCCMW-36D to monitor deep groundwater at the transition of contamination from the shallow to deep aquifer zone
- Wells within and downgradient of Barrier 1 (UCCMW-18, UCCMW-21, and UCCMW-37)
- Paired wells upgradient and downgradient of Barrier 2 (UCCMW-29 and UCCMW-38), which additionally monitor degradation in the shallow zone beneath the Speedy Glass building
- Paired wells upgradient and downgradient of Barrier 3 (UCCMW-39 and BB-2)
- Paired wells upgradient and downgradient of Barrier 4 (UCCMW-31D and UCCMW-40D)
- Paired wells upgradient and downgradient of Barrier 5 (UCCMW-41D and UCCMW-42D) and within Barrier 5 (UCCMW-34D)

The first monitoring event of Year 1 will also include baseline sampling for CVOCs and MNA parameters at the upgradient and downgradient sentinel wells, which include the following:

- UCCMW-11S
- UCCMW-33D

Groundwater elevation measurements will be collected from each performance well designated for chemical analysis, in addition to plume boundary wells that may not be designated for chemical analysis to refine groundwater flow direction and measure the magnitude of hydraulic gradients at the Site. Separate assessments will be completed for the shallow and deep aquifer zones.

5.2 VAPOR INTRUSION SCREENING

Shallow groundwater contamination beneath the southern parcel of the Source Property and Speedy Glass and Ranch Drive-In properties currently exceeds the vapor intrusion screening levels for unrestricted land use but does not exceed RELs developed for current commercial use. However, as PCE is degraded, concentrations of PCE breakdown products are expected to temporarily increase before decreasing as biodegradation progresses toward completion. Protection monitoring following the in situ treatment barriers will monitor groundwater for comparison to RELs developed for the current commercial usage of the Speedy Glass and Ranch Drive-In properties and inform potential mitigation measures, if determined to be necessary.

During performance monitoring, groundwater results for CVOCs at key wells adjacent to private property buildings will additionally be evaluated for vapor intrusion risk according to the RELs presented in Table 2.2. Key wells of interest include UCCMW-7, which is situated in the shallow zone immediately upgradient of the Ranch Drive-In building, and UCCMW-29, which is situated in the shallow zone immediately upgradient of the Speedy Glass building. If groundwater concentrations are found to exceed the RELs for current commercial building use, additional vapor intrusion assessment and potential mitigation measures will be discussed with Ecology and the property owners. If a change in land usage occurs on these private properties during the restoration time frame for the cleanup action, further vapor intrusion assessment and potentially mitigation would also be required for future development. If further vapor intrusion assessment is needed, a work plan for data collection would be prepared in accordance with the City development standards, discussed in Section 5.3.

5.3 INSTITUTIONAL CONTROLS

ICs are necessary to protect the long-term safety of humans and the environment where hazardous substances will remain in place after implementation of the cleanup action.

PCE that remains in soil includes one isolated area in the Bothell Way NE ROW near the intersection of NE 183rd Street and Bothell Way NE, approximately 90 feet southwest of the Source Property. Contamination at this location was measured at concentrations of 0.12 to 0.15 mg/kg and is presumed to extend to approximately 8 feet bgs. It is well-bounded by other

soil samples less than the CUL, encompassing a maximum approximate area of 750 square feet or less (approximately 220 cubic yards). The detected PCE in soil at this location was attributed to adsorption to soil from highly PCE-contaminated groundwater and is expected to attenuate with ongoing groundwater treatment to reduce PCE.

PCE in groundwater beneath the ROW of Bothell Way NE was not targeted for active treatment because there is limited potential for receptors to be exposed to this contamination. PCE in groundwater beneath the ROW is expected to attenuate to less than CULs after the upgradient source removal; however, the restoration time frame outside of the areas targeted for active treatment is expected to be slower than within the treatment areas.

The City signed an MOA with Ecology to address contamination in ROWs adjacent to contaminated sites. In accordance with the MOA, the City prepared the Protocol that is incorporated into the Bothell Design and Construction Standards (City of Bothell 2023). This Protocol acts as an IC for the remaining soil and groundwater contamination beneath Bothell Way NE.

Under the Protocol and the MOA, the City must provide analytical data to any developer performing work within areas of ROW contamination or adjacent properties (designated the Contamination Review Area). The Protocol includes worker safety and environmental management requirements that are triggered by future ROW construction that will disturb contaminated soil. The Protocol requires that developers follow all federal and state requirements, such as current vapor intrusion assessment regulations and guidance for construction on private properties within the Contamination Review Area. The Protocol and MOA prohibit groundwater withdrawal for drinking water use within areas of ROW contamination and require proper management and disposal of construction dewatering water generated in these areas.

5.4 ADDITIONAL ASSESSMENT OR TREATMENT EVALUATION

The need for additional vapor intrusion assessment and/or groundwater treatment will be determined after the completion of year 1 performance monitoring. When making determinations for additional assessment or treatment, the following sources of performance data may be evaluated:

- Cross-barrier removal efficiencies for CVOCs calculated for paired groundwater monitoring wells at each treatment barrier
- Overall rates of CVOC source mass reduction in Site groundwater based on statistical metrics (such as median and upper confidence limits) calculated Site-wide and at each monitoring well for successive monitoring datasets
- Trend analysis at individual wells in accordance with Ecology statistical guidance (Ecology 1992) to determine the potential presence and slope of downward trends in CVOC concentrations

- Concentration trends of PCE breakdown products relative to PCE Site-wide and at individual wells
- Geochemical indicators of the occurrence of natural attenuation
- Geochemical conditions conducive to anaerobic and abiotic dechlorination
- Exceedances or projected exceedances of RELs in groundwater underlying enclosed buildings
- Anticipated changes in land use that may trigger RELs for unrestricted, rather than commercial, exposures

If additional assessment or treatment is determined to be needed, the additional work will be proposed in coordination with Ecology.

5.5 REPORTING SCHEDULE

The construction performance and confirmation monitoring data will be submitted to Ecology's Environmental Information Management (EIM) database after receipt and validation of the first round of groundwater performance monitoring data that will be collected in the second quarter of 2026. Additional EIM updates to the status of soil samples removed by remedial excavation will also be performed concurrently with data submittal.

After collection of the first year of groundwater performance monitoring data, evaluation will be performed in accordance with Section 5.4. The results of the assessment will be summarized in a Performance Evaluation and Recommendations memorandum – projected for the time frame around the first quarter in 2027. The memorandum will present an opinion on whether cleanup action construction is complete or additional remediation activities such as follow-up treatment injection are needed to meet CULs within the target restoration time frame. If the evaluation concludes that cleanup action is complete, this document will serve as the Construction Completion Report for Site remediation. The memorandum will also present recommendations on whether additional vapor intrusion assessment is needed in any portion of the Site based on the results of groundwater monitoring.

6.0 References

City of Bothell (City). 2023. *Bothell Design and Construction Standards. 2023 Update.* 1 General Conditions. https://bothellwa.gov/DocumentCenter/View/18692/Chapter-1---General-Conditions

Floyd|Snider. 2023. *Ultra Custom Care Cleaners Site Engineering Design Report.* Prepared for City of Bothell. July.

_____. 2025. *Ultra Custom Care Cleaners Site Supplemental Groundwater Monitoring.* Memorandum from Kristin Anderson, Floyd|Snider, to Sunny Becker, Washington State Department of Ecology. 3 January.

Washington State Department of Ecology (Ecology). 1992. *Statistical Guideline for Ecology Site Managers.* Toxics Cleanup Program. 1 August.

_____. 2019. *Stormwater Management Manual for Western Washington.* Publication No. 19-10-021. July.

_____. 2022a. *Cleanup Action Plan.* Prepared for City of Bothell. November.

_____. 2022b. *Natural Background Groundwater Arsenic Concentrations in Washington State: Study Results.* Publication No. 14-09-044. January.

_____. 2022c. *Guidance for Evaluating Vapor Intrusion in Washington State, Investigation and Remedial Action.* Publication No. 09-09-047. Originally published October 2009. Revised February 2016, April 2018, November 2021, and March 2022.

_____. 2023. *Consent Decree RE: Ultra Custom Care Cleaners.* No. 22-2-20573-3. 10 February.

Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Tables

Table 3.1
Injection Details

	Design Treatment Location			Applied Treatment Location			Treatment Materials [1]														Injection Volume [2]					
							Design PlumeStop (pounds)		PlumeStop Applied (pounds)		Design S-mZVI (pounds)		S-mZVI Applied (pounds)		Design AquiFix (pounds)		AquiFix Applied (pounds)		Design BDI Plus (liters)		BDI Plus Applied (liters)		Design Volume (gallons)			Volume Applied (gallons)		
	Length (feet)	Injection Points	Treatment Interval (feet bgs)	Length (feet)	Injection Points	Treatment Interval (feet bgs)	Total	Per Vertical Foot	Total	Per Vertical Foot	Total	Per Vertical Foot	Total	Per Vertical Foot	Total	Per Vertical Foot	Total	Per Vertical Foot	Total	Per Vertical Foot	Total	Per Vertical Foot	Total	Per Point	Per Vertical Foot	Total	Per Point	Per Vertical Foot
In Situ Treatment Barriers																												
1	80	25	9 to 22	80	25	9 to 22	6,000	18	6,000	18	800	2.5	800	2.5	--	--	--	--	8	0.025	8	0.025	11,375	455	35	3,640	455	35
2	130	40	7 to 27	130	40 [3]	7 to 27	12,000	15	12,000	15	--	--	--	--	3,600	4.5	3,600	4.5	18	0.023	18	0.023	28,000	780	35	17,870	447 [4]	22.3
3	80	25	7 to 30	80	25	7 to 30	11,600	20	11,600	20	3,100	5.4	3,100	5.4	3,100	5.4	3,100	5.4	13	0.023	13	0.023	20,125	805	35	14,375	575 [5]	25
4	100	31	15 to 35	100	31	15 to 35	12,400	20	12,400	3	3,300	5.3	3,300	5.3	3,300	5.3	3,300	5.3	14	0.023	14	0.023	21,700	700	35	12,520	404 [6]	20.2
5	100	31	31 to 51	100	31	31 to 51	10,000	16	10,000	16	3,300	5.3	3,300	5.3	--	--	--	--	14	0.023	14	0.023	21,700	700	35	17,341	559 [7]	28
Supplemental Treatment Zones																												
1	40	4	7 to 18	40	4	7 to 18	--	--	--	--	500	11.4	500	11.4	1,200	27	1,200	27	4	0.091	4	0.091	1,980	495	45	1,980	495	45
2	40	4	6 to 18	40	4	6 to 18	--	--	--	--	500	10.4	500	10.4	1,200	25	1,200	25	5	0.10	5	0.10	2,160	540	45	2,160	540	45
3	60	6	20 to 40	60	6	20 to 40	--	--	--	--	1,500	12.5	1,500	12.5	4,000	33	4,000	33	9	0.075	9	0.075	5,400	900	45	4,200	700 [8]	35

Notes:

-- Not applied.

1 Treatment material design quantities are specified in the EDR (Floyd|Snider 2023) with modifications described in the Memorandum Re: Supplemental Groundwater Monitoring (Floyd|Snider 2025). PlumeStop, S-mZVI, AquiFix, and BDI Plus are all registered or pending trademarked products supplied by RRS.

2 Water was added to dilute the treatment materials until the appropriate total volume of injectate mixture was created. Water enhances the ROI of direct push injection and ensures even application of the treatment materials. Observed ROI was within design parameters at all barriers.

3 The eight IPs in the utility corridor were condensed to four IPs. Each condensed IP (IP-2-1/2, IP-2-6/7, IP-2-9/10, and IP-2-11/12) received double the amount of treatment materials without additional water.

4 Some IPs in Barrier 2 received a gradual reduction of water in the mixture by decreasing volume applied from 700 GPP to 300 GPP.

5 Barrier 3 was reduced from 805 GPP to 575 GPP for the entire barrier by decreasing the volume of water in the mixture.

6 Barrier 4 was reduced from 700 GPP to 400 GPP for the entire barrier by decreasing the volume of water in the mixture.

7 Barrier 5 received a gradual reduction of water in the mixture by decreasing volume applied from 700 GPP to 500 GPP for the entire barrier.

8 Treatment Zone 3 was reduced from 900 GPP to 700 GPP for the entire zone by decreasing the volume of water in the mixture.

Abbreviations:

BDI Plus	Bio-Dechlor Inoculum
bgs	Below ground surface
EDR	Engineering Design Report
GPP	Gallons per point
IP	Injection point
ROI	Radius of influence
RRS	Regenesis Remediation Solutions
S-mZVI	Sulfidated microscale zero-valent iron

Table 4.1
Excavation Confirmation Soil Sample Results

			Analyte Class	Volatile Organic Compounds			
			Analyte	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl chloride
			CAS No.	127-18-4	79-01-6	156-59-2	75-01-4
			Site CUL	0.05	--	--	--
			Unit	mg/kg	mg/kg	mg/kg	mg/kg
Location Name	Sample Name	Sample Date	Sample Depth (feet bgs)				
Area A							
A-B1	A-B1-5.5	2/27/2023	5.5–5.5	0.0011 U	0.0011 U	0.0011 U	0.000056 U
A-S1	A-S1-3	2/27/2023	3–3	0.00071 U	0.00071 U	0.00071 U	0.000036 U
A-S2	A-S2-2.5-3.5-112923	11/29/2023	2.5–3.5	0.0013 U			
	A-S12-2.5-3.5-112923	11/29/2023	2.5–3.5	0.0014 U			
Area B							
B-B1	B-B1-5-112923	11/29/2023	5–5	0.0014 U			
B-S1	B-S1-2.5-3.5-112923	11/29/2023	2.5–3.5	0.0046			
B-S2	B-S2-2.5-3.5-112923	11/29/2023	2.5–3.5	0.0013 U			
Area C							
C-B1	C-B1-10	2/27/2023	10–10	0.0023	0.00094 U	0.0079	0.000047 U
C-S1	C-S1-5.5	2/27/2023	5.5–5.5	0.00074 U	0.00074 U	0.00074 U	0.000037 U
C-S2	C-S2-4.5-5.5-112923	11/30/2023	4.5–5.5	0.0011 U			
C-S3	C-S3-4.5-5.5-112923	11/29/2023	4.5–5.5	0.014			
PP-7	PP-7-9.5	10/14/2013	9.5–9.5	0.0043	0.00069 U	0.00069 U	0.00069 U
PP-24	PP-24-10	10/17/2013	10–10	0.0099	0.0011	0.00096 U	0.00096 U

Notes:

Analytical results are rounded to two significant figures.

Blank cells are intentional.

-- Not applicable.

Abbreviations:

bgs Below ground surface

CAS Chemical Abstracts Service

CUL Cleanup level

mg/kg Milligrams per kilogram

Site Ultra Custom Care Cleaners Site

Qualifier:

U Analyte was not detected at the associated reporting limit.

Table 5.1
Groundwater Performance Monitoring Details

Location Information		Data Collection [1]					
		Year 1 Q2			Year 1 Q4		
Well ID	Screen Interval (feet bgs)	Water Level	CVOC	MNA	Water Level	CVOC	MNA
Shallow Aquifer Zone Wells							
BLMW-10	5–10	X			X		
UCCMW-5	10–20	X			X		
UCCMW-7	8–18	X	X	X	X	X	X
UCCMW-11S	8–18	X	X	X	X		
UCCMW-18	10–20	X	X	X	X	X	
UCCMW-21	12–22	X	X	X	X	X	X
UCCMW-29	5–15	X	X	X	X	X	X
UCCMW-32	15–25	X			X		
UCCMW-37	10–20	X	X		X	X	
UCCMW-38	9.5–19.5	X	X	X	X	X	X
Shallow to Deep Aquifer Transition Zone Wells [2]							
UCCMW-39	17–27	X	X	X	X	X	X
BB-2	9–19	X	X		X	X	
Deep Aquifer Zone Wells							
UCCMW-11	18–23	X			X		
UCCMW-28D	40–50	X			X		
UCCMW-29D	34–44	X			X		
UCCMW-30D	26–36	X			X		
UCCMW-31D	18–28	X	X		X	X	
UCCMW-32D	30–40	X			X		
UCCMW-33D	30-40	X	X	X	X		
UCCMW-34D	35–40	X	X		X	X	
UCCMW-36D	15–30	X	X	X	X	X	X
UCCMW-40D	20–30	X	X	X	X	X	X
UCCMW-41D	39–54	X	X	X	X	X	X
UCCMW-42D	37–52	X	X	X	X	X	X

Notes:

1 Data will be collected semiannually for 1 year. CVOC analysis includes PCE, TCE, cis- and trans- 1,2-DCE and vinyl chloride. MNA parameter analysis includes anions (nitrate, nitrite, and sulfate), sulfide, ferrous iron, and dissolved gases (ethene, ethane, and methane).

2 Shallow-to-deep aquifer transition zone wells are grouped with shallow aquifer zone wells on Figure 5.1.

Abbreviations:

bgs Below ground surface
CVOC Chlorinated volatile organic compound
DCE Dichloroethene
MNA Monitored natural attenuation
PCE Tetrachloroethene
TCE Trichloroethene

Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Figures

Cleanup Action Components

- In Situ Groundwater Treatment Barrier[1]
- In Situ Groundwater Supplemental Treatment Zone[1]
- Source Area Soil Excavation
- Source Property Treatment Zone[2]

CVOC AOC Features[3]

- Soil Contamination
- Shallow Groundwater Plume
- Deep Groundwater Plume

Monitoring Well - Existing

- Shallow
- Deep

Monitoring Well - Installed During Cleanup Action

- Shallow
- Deep

Other Features

- Ultra Custom Care Cleaners Source Property
- Parcel Boundary

0 25 50 100

Scale in Feet

N

Area A 78 cy
Area B 53 cy
Area C 420 cy
UCCMW-3R
UCCMW-11
UCCMW-11S
UCCMW-12D
UCCMW-12S
UCCMW-17
UCCMW-19
UCCMW-18
UCCMW-4D
UCCMW-37
BARRIER 1 (SHALLOW)
CITY OF BOTHELL CITY HALL CAMPUS
NE 183RD ST
UCCMW-20
UCCMW-21
TREATMENT ZONE 1
TREATMENT ZONE 2
UCCMW-5
UCCMW-6
UCCMW-23
UCCMW-24
UCCMW-28D
UCCMW-25
UCCMW-7
RANCH DRIVE-IN
WASHINGTON FEDERAL BANK
UCCMW-29D
UCCMW-29
BARRIER 2 (SHALLOW)
UCCMW-38
BI-3
SPEEDY AUTO GLASS
HILLCREST BAKERY
UCCMW-36D
UCCMW-39
UCCMW-30D
UCCMW-9
UCCMW-8
BARRIER 3 (SHALLOW TO DEEP)
BB-2
MAIN ST
BOTHELL WAY NE
KEEP CLEAR
UCCMW-10
BLMW-8
BARRIER 4 (DEEP)
UCCMW-31D
BASKIN-ROBBINS
UCCMW-40D
UCCMW-27
UCCMW-32
UCCMW-32D
TREATMENT ZONE 3
UCCMW-41D
BARRIER 5 (DEEP)
UCCMW-34D
BLMW-10
UCCMW-35D
CITY OF BOTHELL LOT E,F,G
UCCMW-33D
UCCMW-42D
BC-5
WOODINVILLE DR

Notes:
1. In situ groundwater treatment of the CVOC groundwater plume included soil mixing with ZVI and injection of a trademarked colloidal liquid carbon biomatrix (PlumeStop), S-mZVI, soluble organic carbon (AquiFix), and BDI Plus mixture to create passive treatment barriers for chemical reduction and bioremediation in both shallow and deep groundwater. Supplemental treatment zone injections were composed of soluble organic carbon (Aquifix) supplemented with S-mZVI and BDI Plus. Natural attenuation will be monitored after the in situ groundwater treatment.
2. Source property treatment consisted of placement of ZVI into the bottom of excavation Area C and soil mixing to a depth of 15 feet bgs.
3. There are three CVOC AOCs at the Site: the Source Property CVOC AOC, Shallow Groundwater CVOC AOC, and Deep Groundwater CVOC AOC.
- The CVOC plume extents shown encompass the extent of groundwater contamination that is greater than the CULs.
- Shallow wells are screened or completed between approximately 5 and 25 feet bgs and deep wells are deeper than approximately 25 feet bgs.
- Parcel data obtained from King County Geospatial Information System Services Section, 2024.
- Aerial imagery obtained from Nearmap, 2026.

Abbreviations:
AOC = Area of concern
BDI Plus = Bio-Dechlor Inoculum
bgs = Below ground surface
CUL = Cleanup level
CVOC = Chlorinated volatile organic compound
cy = Cubic yards
S-mZVI = Sulfidated microscale zero-valent iron
Site = Ultra Custom Care Cleaners Site
ZVI = Zero-valent iron

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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

Figure 1.1
Cleanup Action Components

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5/15/2026

Cleanup Action Components

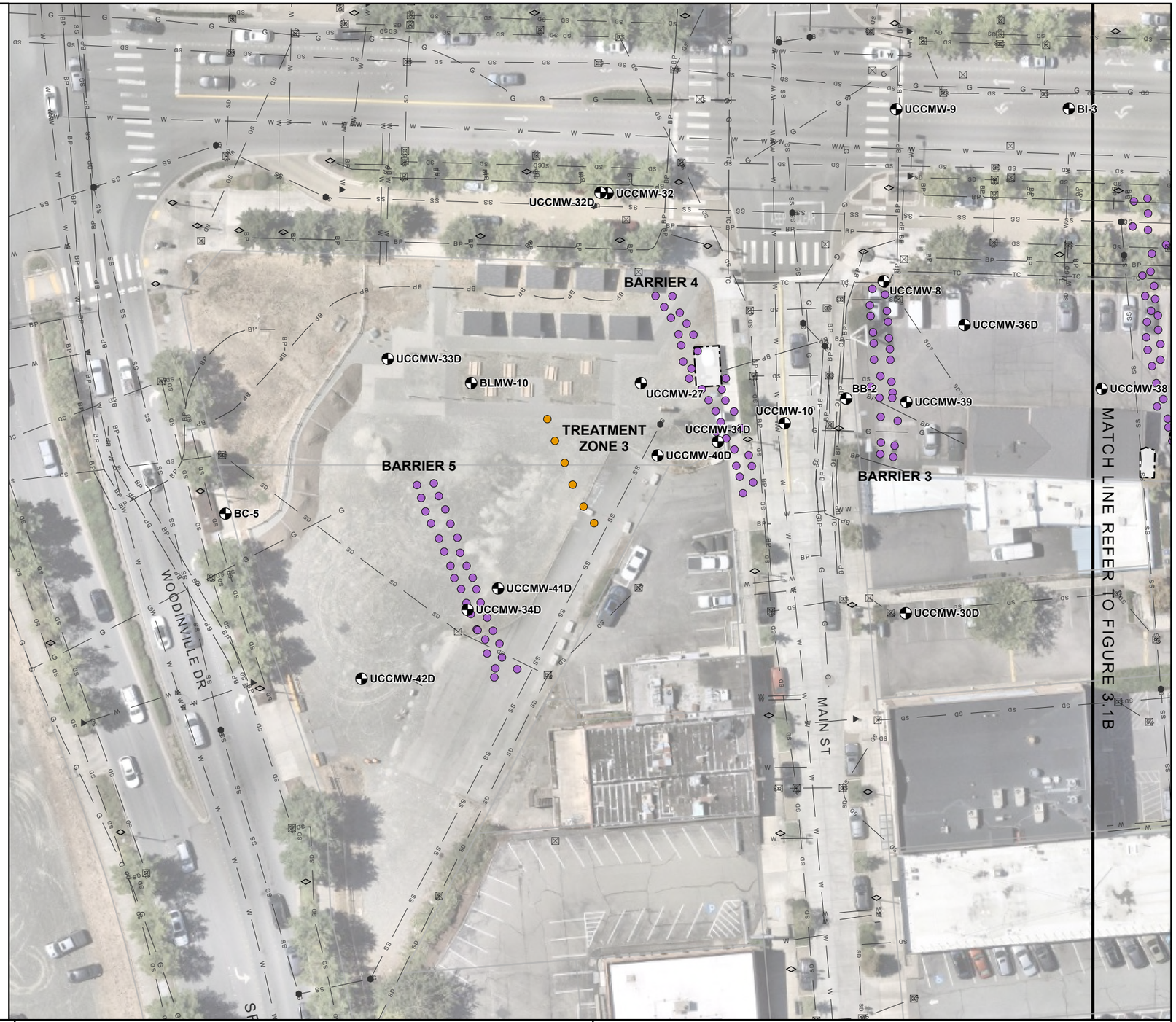
- Source Area Soil Excavation
- Monitoring Well
- Decommissioned Monitoring Well
- In Situ Groundwater Treatment Barrier Injection Point
- In Situ Groundwater Supplemental Treatment Zone Injection Point

Utilities

- Catch Basin
- Fire Hydrant
- Street Light
- Manhole
- W — Water Line
- SS — Sewer Line
- SD — Storm Drain Line
- SD? — Inferred Storm Drain Line
- BP — Buried Power
- TC — Buried Telecommunication Line
- G — Gas Line

Other Features

- Fenced Area
- Ultra Custom Care Cleaners Source Property
- Parcel Boundary



Notes:

- Utility lines within 10 feet of planned ground-disturbing activities were located with electromagnetic methods prior to construction. The position of any lines that were not locatable with electromagnetic methods were verified by camera survey or potholing prior to construction.
- Performed camera survey to verify post-construction conditions where in situ treatment barriers cross storm drain and sewer lines and any other identified active storm drain and sewer line utilities.
- Locations of individual injection points were recorded in the field using a sub-meter Global Navigation Satellite Systems device.
- Existing well locations were surveyed by Floyd|Snider in 2020. New wells were surveyed by True North Land Surveying, Inc. in 2025.
- Abandoned utilities are not shown.
- Utility data obtained from City of Bothell Geospatial Information System Services Section, 2023 and as-build maps provided by Puget Sound Energy, 2023 have been updated where applicable with field location data.
- Parcel data obtained from King County Geospatial Information System Services Section, 2024.
- Aerial imagery obtained from Nearmap, 2026.

0 25 50 100

Scale in Feet

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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

Figure 3.1a
Site Utility Layout and Cleanup Action Locations

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Cleanup Action Components

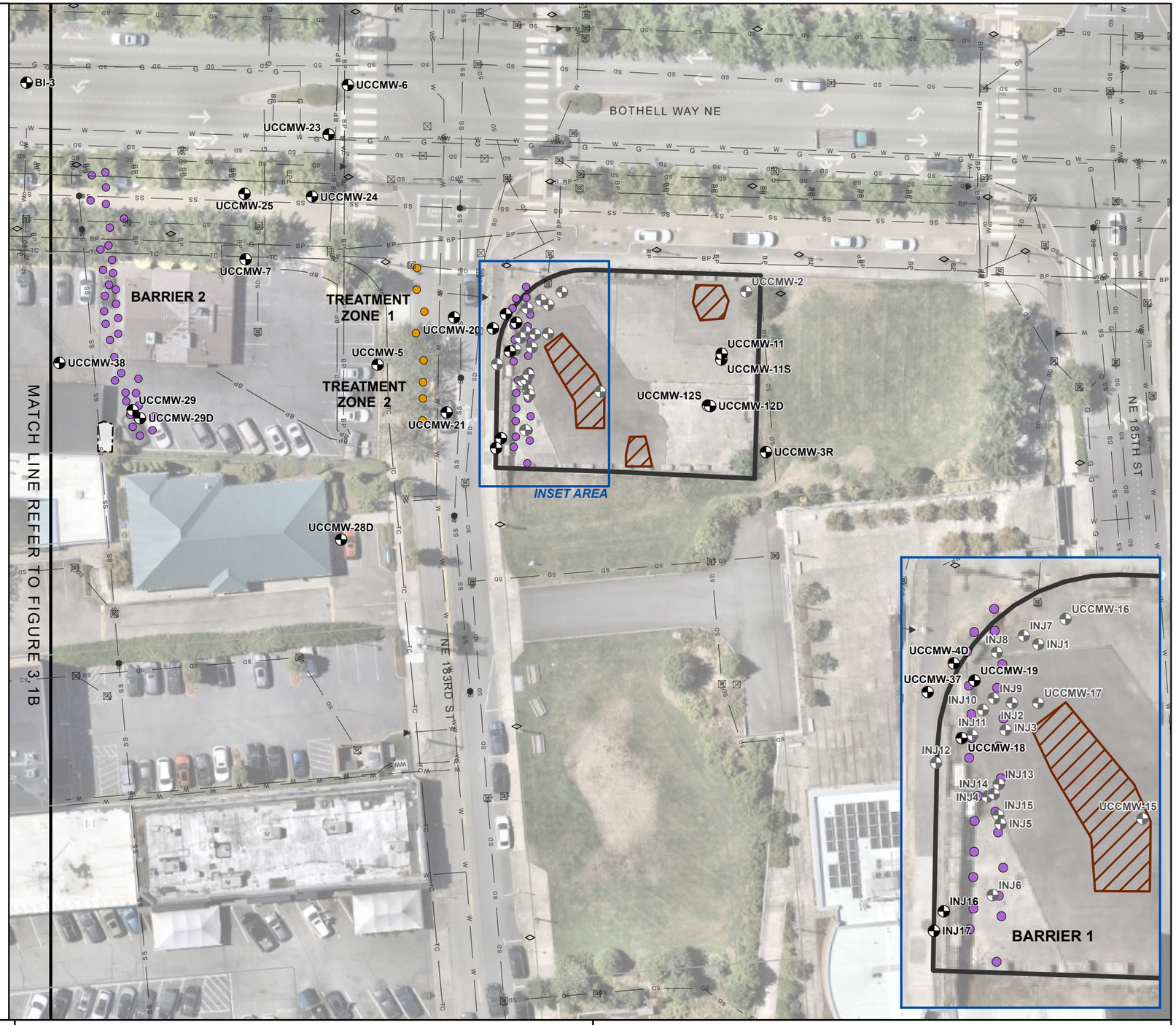
- Source Area Soil Excavation
- Monitoring Well
- Decommissioned Monitoring Well
- In Situ Groundwater Treatment Barrier Injection Point
- In Situ Groundwater Supplemental Treatment Zone Injection Point

Utilities

- Catch Basin
- Fire Hydrant
- Street Light
- Manhole
- W —— Water Line
- SS —— Sewer Line
- SD —— Storm Drain Line
- SD? —— Inferred Storm Drain Line
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Other Features

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- Aerial imagery obtained from Nearmap, 2026.

0 25 50 100

Scale in Feet

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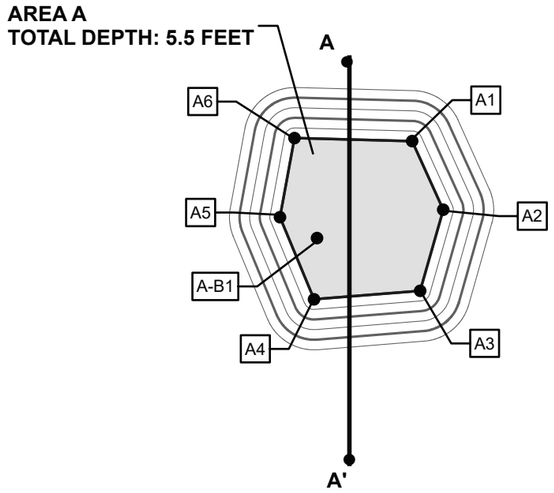
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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

Figure 3.1b
Site Utility Layout and Cleanup Action Locations

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5/15/2026

- Control Point
- Source Area Soil Excavation
- Sidewall Elevation Contour
- Excavation Detail Cross Section Transect and Designation

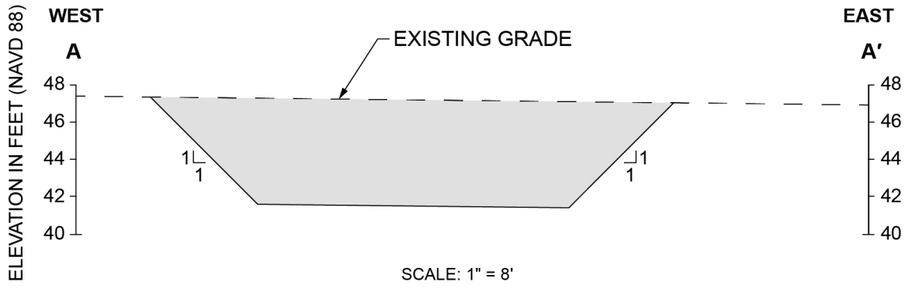


SURVEYED ELEVATIONS (1)			
POINT ID	PRE-EXCAVATION ELEV.	POST-EXCAVATION ELEV.	EXCAVATION FEET BGS
A1	47.44	41.53	5.91
A2	47.11	41.60	5.51
A3	47.01	41.51	5.50
A4	47.14	41.33	5.81
A5	46.99	41.32	5.67
A6	47.09	41.60	5.49
A-B1	~47.0	~41.5	~5.5

Area A target excavation depth = 5.5 feet bgs

~ = approximately

EXCAVATION PERIMETER CONTROL POINTS (2)		
POINT ID	NORTHING	EASTING
A1	280674.4	1302503.4
A2	280677.5	1302510.2
A3	280675.2	1302518.2
A4	280664.7	1302519.1
A5	280661.3	1302510.9
A6	280662.8	1302503.1



Notes:
1. Contractor verified total depth of excavations below surrounding grade with survey. Elevation are presented in feet NAVD 88.
2. Control point coordinates are presented in feet NAD 83 Washington State Plane North.
- Sidewall elevation contours are shown at 1-foot intervals.
- Excavated area was backfilled and compacted with clean import material to existing pavement subgrade. Paved ground surfaces were replaced with asphalt to match surrounding pavement.

Abbreviations:
bgs = Below ground surface
NAD 83 = North American Datum of 1983
NAVD 88 = North American Vertical Datum of 1988

0 7.5 15 30
Scale in Feet

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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

Figure 3.2
Excavation Area A

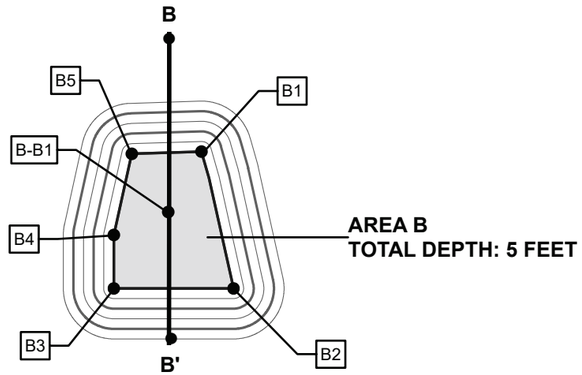
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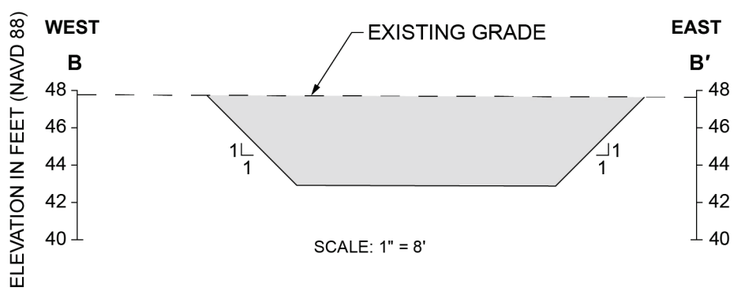
- Control Point
- Source Area Soil Excavation
- Sidewall Elevation Contour
- Excavation Detail Cross Section Transect and Designation

SURVEYED ELEVATIONS (1)			
POINT ID	PRE-EXCAVATION ELEV.	POST-EXCAVATION ELEV.	EXCAVATION FEET BGS
B1	47.79	42.88	4.91
B2	47.82	42.97	4.85
B3	47.47	42.66	4.81
B4	47.50	42.92	4.58
B5	47.65	42.91	4.74
B-B1	~47.7	~42.6	~5.1

Area B target excavation depth = 5 feet bgs
~ = approximately

EXCAVATION PERIMETER CONTROL POINTS (2)		
POINT ID	NORTHING	EASTING
B1	280639.7	1302571.6
B2	280642.9	1302585.2
B3	280631.0	1302585.2
B4	280631.0	1302579.9
B5	280632.8	1302571.8





Notes:
1. Contractor verified total depth of excavations below surrounding grade with survey. Elevation are presented in feet NAVD 88.
2. Control point coordinates are presented in feet NAD 83 Washington State Plane North.
- Sidewall elevation contours are shown at 1-foot intervals.
- Excavated area was backfilled and compacted with clean import material to existing pavement subgrade. Paved ground surfaces were replaced with asphalt to match surrounding pavement.

Abbreviations:
bgs = Below ground surface
NAD 83 = North American Datum of 1983
NAVD 88 = North American Vertical Datum of 1988

0 7.5 15 30
Scale in Feet

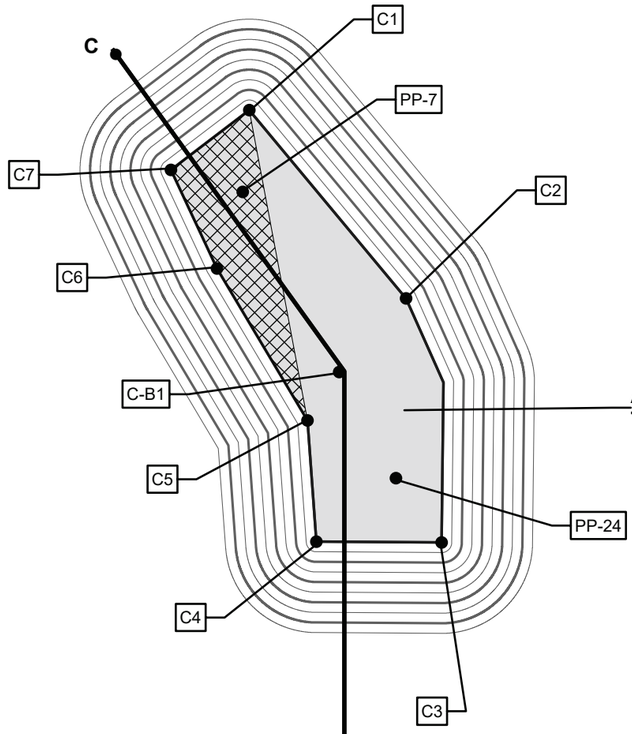
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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

Figure 3.3
Excavation Area B

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4/10/2026

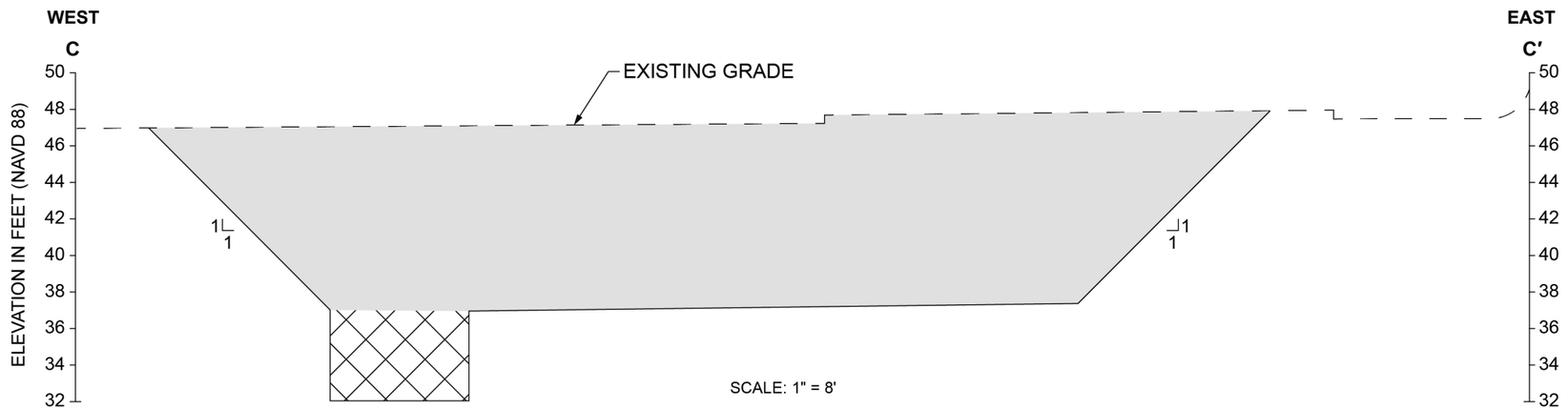
- Control Point
- Source Area Soil Excavation
- ZVI Soil Mixing[3]
- Sidewall Elevation Contour
- Excavation Detail Cross Section Transect and Designation



SURVEYED ELEVATIONS[1]			
POINT ID	PRE-EXCAVATION ELEV.	POST-EXCAVATION ELEV.	EXCAVATION FEET BGS
C1	46.71	37.25	9.46
C2	47.66	~37.2	~10.5
C3	47.53	37.37	10.16
C4	47.82	37.33	10.49
C5	47.74	--	--
C6	47.37	~36.9	~10.5
C7	47.05	37.01	10.04
PP-7	~47.0	~36.9	~10.1
C-B1	~47.7	~37.1	~10.6
PP-24	~47.7	~37.7	~10.0

Area C target excavation depth = 9.5 to 10 feet bgs
~ = approximately

EXCAVATION PERIMETER CONTROL POINTS[2]		
POINT ID	NORTHING	EASTING
C1	280602.1	1302525.1
C2	280617.6	1302543.7
C3	280621.1	1302567.9
C4	280608.7	1302567.8
C5	280607.9	1302555.8
C6	280598.9	1302540.8
C7	280594.3	1302531.0
C8	280621.3	1302552.0



Notes:
1. Contractor verified total depth of excavations below surrounding grade with survey. Elevation are presented in feet NAVD 88.
2. Control point coordinates are presented in feet NAD 83 Washington State Plane North.
3. Bucket mixed 2,500 pounds of S-mZVI uniformly to depth of 15 feet at engineer's direction.
- Sidewall elevation contours are shown at 1-foot intervals.
- Excavated area was backfilled and compacted with clean import material to existing pavement subgrade. Paved ground surfaces were replaced with asphalt to match surrounding pavement.

Abbreviations:
bgs = Below ground surface
NAD 83 = North American Datum of 1983
NAVD 88 = North American Vertical Datum of 1988
S-mZVI = Sulfidated microscale zero-valent iron

0 7.5 15 30
Scale in Feet

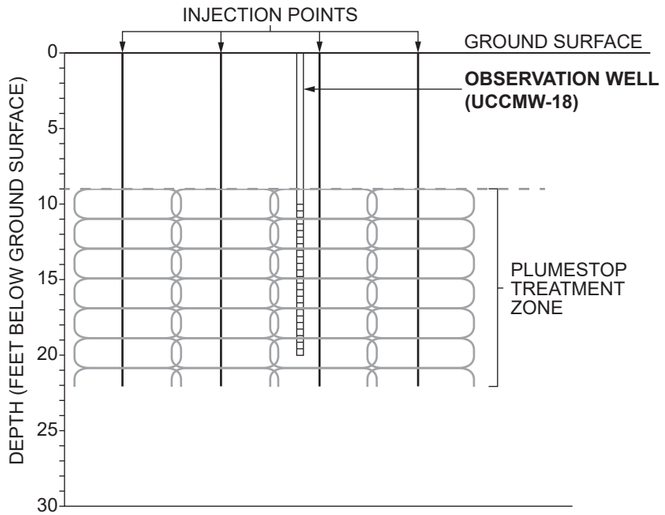
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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

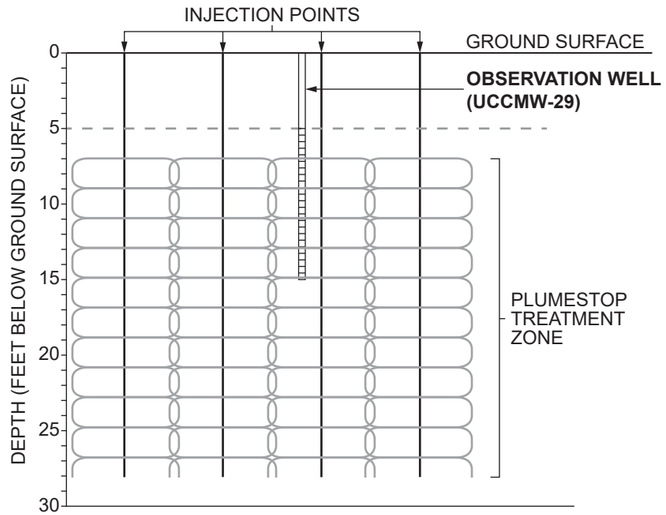
Figure 3.4
Excavation Area C

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4/10/2026

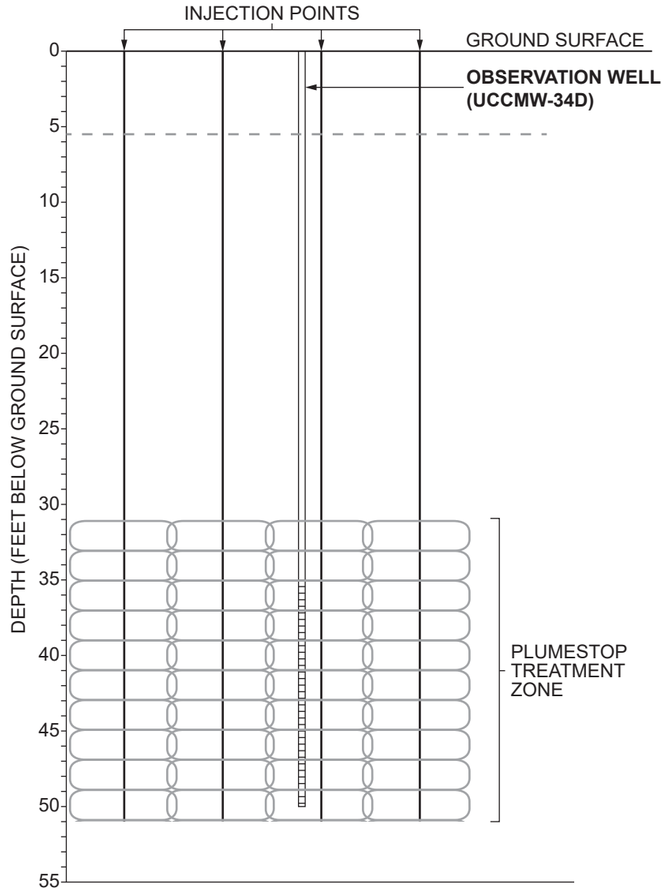
BARRIER 1



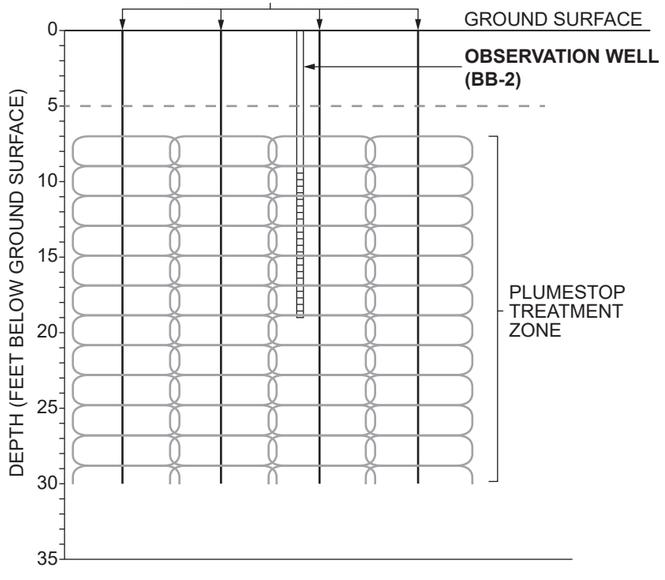
BARRIER 2



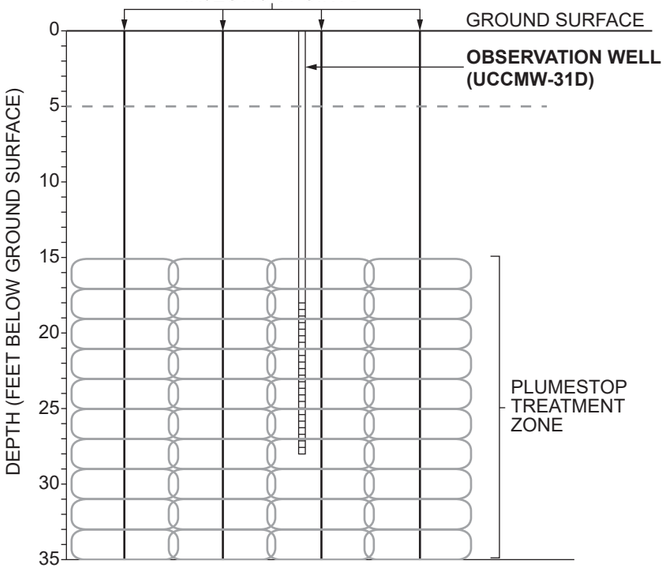
BARRIER 5



BARRIER 3



BARRIER 4



WATER TABLE (APPROXIMATE)

DIRECT PUSH INJECTION SCREEN INTERVAL

NOTE:
- DRAWING PRESENTS PARTIAL HORIZONTAL EXTENT OF BARRIERS.

HORIZONTAL SCALE IN FEET
0 2.5 5 10

0 5 10 20
VERTICAL SCALE IN FEET

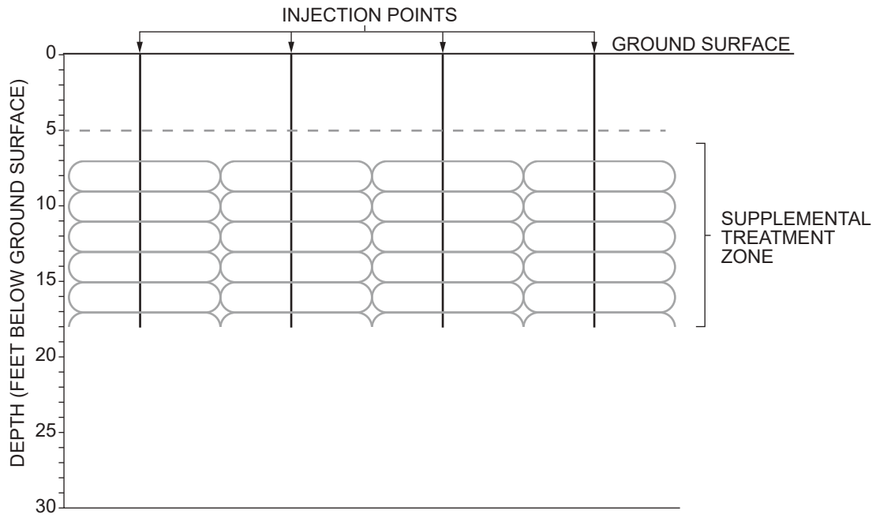
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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

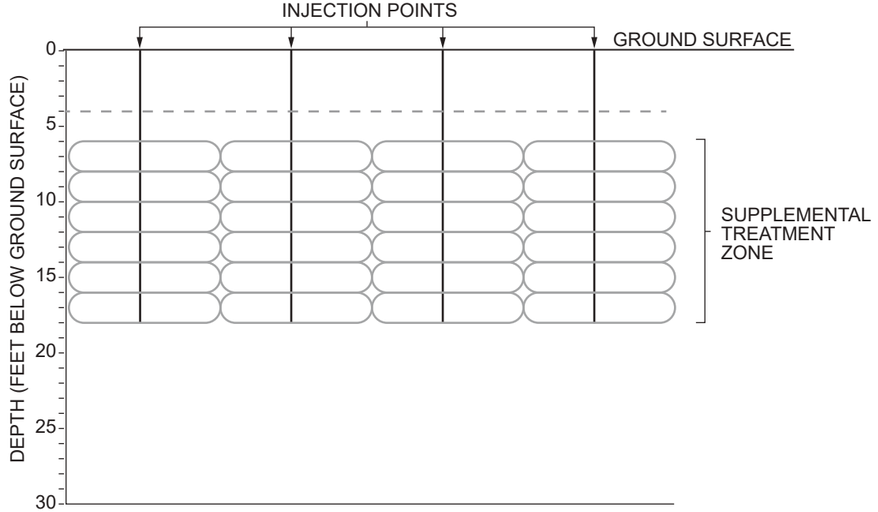
Figure 3.5
Barrier Injection Cross Sections

I:\GIS\Projects\COB\COBothell-Ultra\00-AI\Construction Completion Report\Figure 3.8 Barrier Injection Cross Sections.ai
3/12/2026

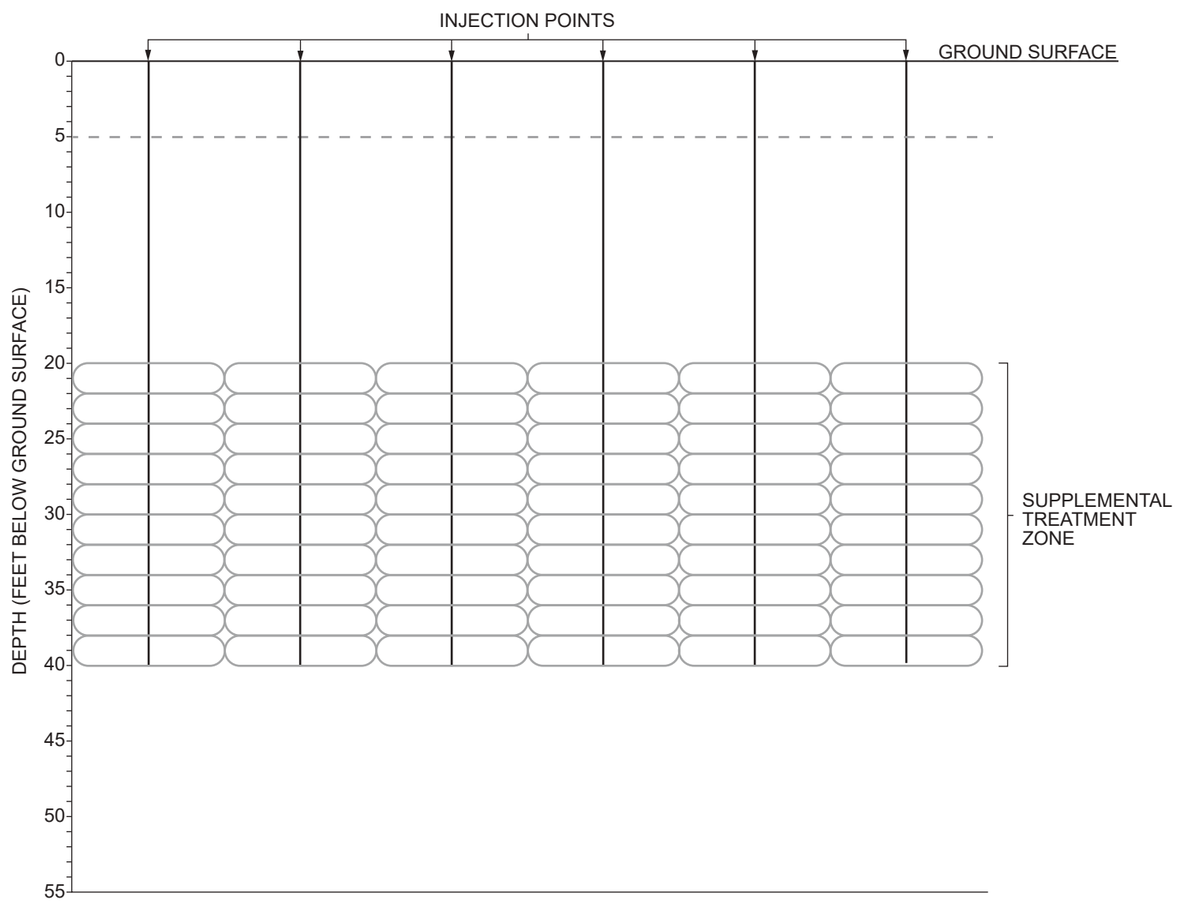
TREATMENT ZONE 1



TREATMENT ZONE 2



TREATMENT ZONE 3



LEGEND

- WATER TABLE (APPROXIMATE)
- DIRECT PUSH INJECTION SCREEN INTERVAL

HORIZONTAL SCALE IN FEET
0 5 10 20
0 5 10 20
VERTICAL SCALE IN FEET

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Construction Completion Report
Ultra Custom Care Cleaners Site
Bothell, Washington

Figure 3.6
Treatment Zone Injection Cross Sections

I:\GIS\Projects\COB\COBothell-Ultra\00-AI\Construction Completion Report\Figure 3.9 Treatment Zone Injection Cross Sections.ai
3/12/2026

Confirmation Sample Location

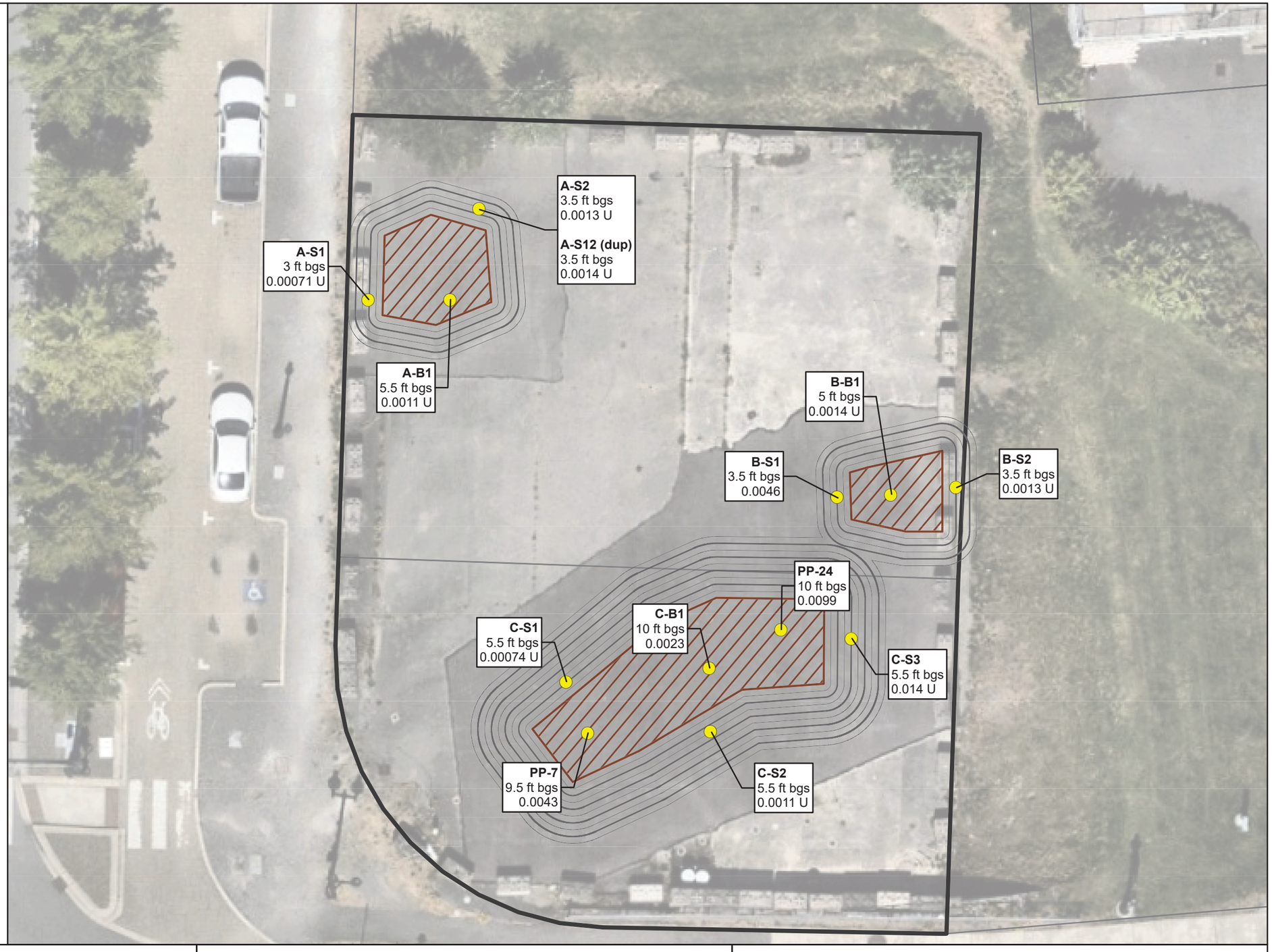
Other Features

- Source Area Soil Excavation
- Sidewall Elevation Contour
- Ultra Custom Care Cleaners Source Property
- Parcel Boundary

Location Labels

Location ID → **EA1b-B19**
Sample Depth → 4 ft bgs
0.025 U ← Concentration (mg/kg) and Qualifier

Soil Cleanup Level
PCE: 0.050 mg/kg



Notes:
· Parcel data obtained from King County Geospatial Information System Services Section, 2024.
· Aerial imagery obtained from Nearmap, 2026.

Abbreviations:
bgs = Below ground surface
ft = Feet
mg/kg = Milligrams per kilogram
PCE = Tetrachloroethene

Qualifier:
U = The analyte was not detected at the given reporting limit.

0 7.5 15 30
Scale in Feet

N

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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

Figure 4.1
Excavation Confirmation Sample Results

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4/10/2026

Monitoring Well

- Shallow
- Deep
- Well to Sample for CVOCs
- Well to Gauge

Groundwater CVOC Plumes

- Shallow Groundwater Plume
- Deep Groundwater Plume

Other Features

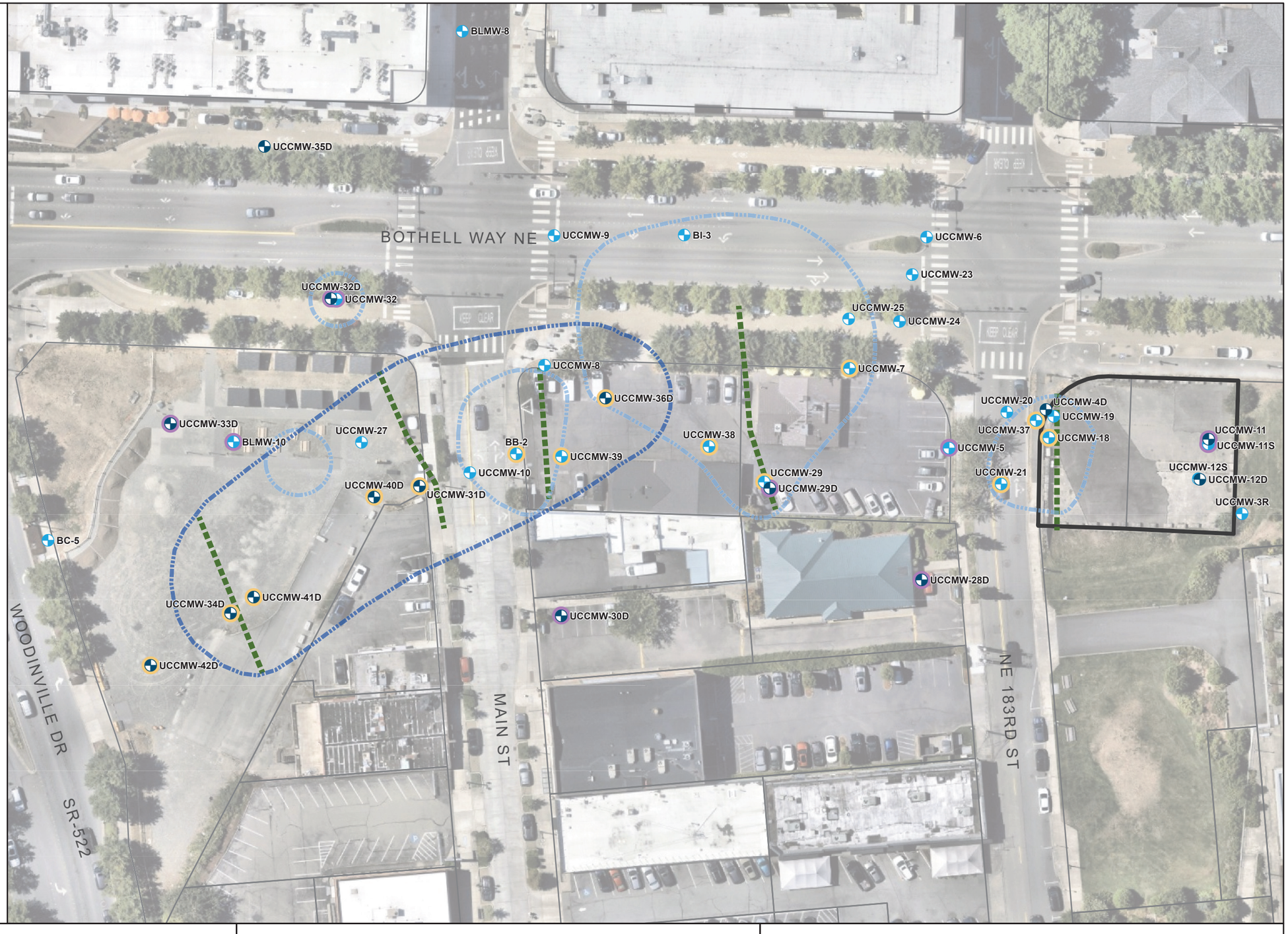
- In Situ Groundwater Treatment Barrier
- Ultra Custom Care Cleaners Source Property
- Parcel Boundary

Notes:

- The CVOC plume extents shown encompass the extent of groundwater contamination that exceeded the CULs prior to implementation of the cleanup action.
- Shallow wells are screened between approximately 5 and 25 feet bgs and deep wells screened are deeper than approximately 25 feet bgs.
- Wells not designated for gauging or sampling will be retained as sentinels.
- Existing well locations were surveyed by Floyd|Snider in 2020. New wells were surveyed by True North Land Surveying, Inc. in 2025. Other locations were obtained from documents referenced in Appendix A of the EDR (Floyd|Snider 2023).
- Parcel data obtained from King County Geospatial Information System Services Section, 2024.
- Aerial imagery obtained from Nearmap, 2026.

Abbreviations:
bgs = Below ground surface
CUL - Cleanup level
CVOC = Chlorinated volatile organic compound
EDR = Engineering Design Report

0 30 60 120
Scale in Feet



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Phase 1 Construction Summary
Ultra Custom Care Cleaners Site
Bothell, Washington

Figure 5.1
Groundwater Monitoring Plan

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4/10/2026

Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Appendix A
Well Decommissioning Logs

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. R058168

Ecology Well ID Tag No. AGT-725

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80646

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76100

Longitude (Example: -120.12345) -122.20715

(WGS 84 Coordinate System)

Borehole diameter 6 inches Casing diameter 2 inches

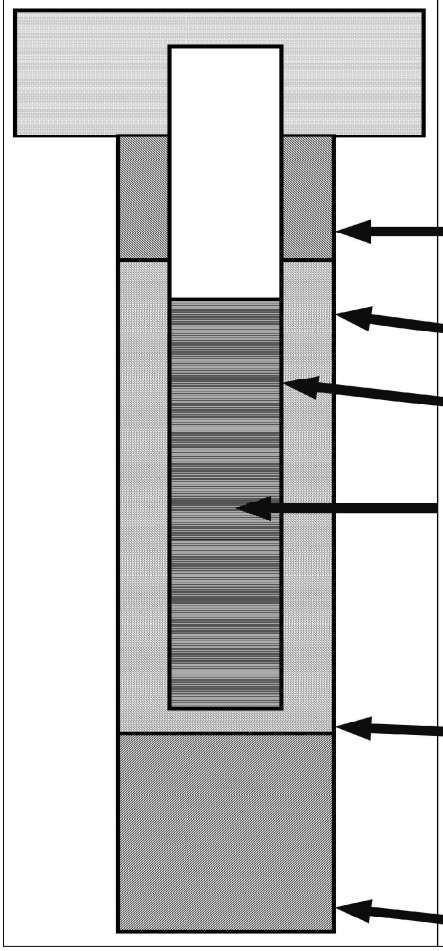
Static water level 5 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2' FT
Blank Casing (dia x dep)	
Material	
Backfill	FT
Type	
Seal	FT
Gravel Pack	FT
Material	
Screen (dia x dep)	
Slot Size	
Material	
Well Depth	FT
Backfill	30
Material	CHIPS
Total Hole Depth	30 FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. R058168

Ecology Well ID Tag No. AGT-726

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80646

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76125

Longitude (Example: -120.12345) -122.20728

(WGS 84 Coordinate System)

Borehole diameter 6 inches Casing diameter 2 inches

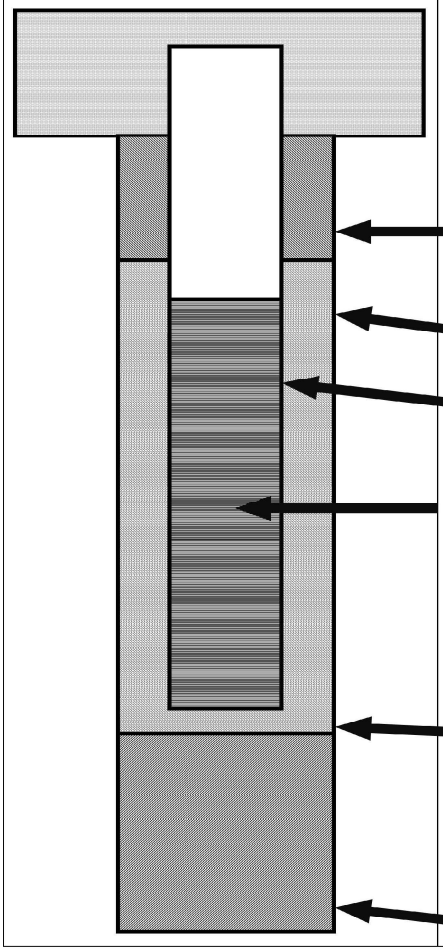
Static water level 5 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	13	
Material	CHIPS	
Total Hole Depth	13	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE09945

Ecology Well ID Tag No. BIE-811

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80645

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76099

Longitude (Example: -120.12345) -122.20707

(WGS 84 Coordinate System)

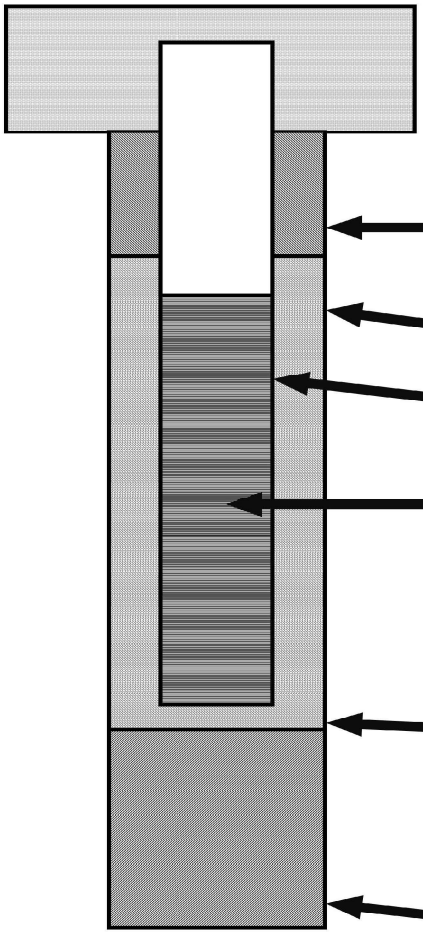
Borehole diameter 3.5 inches Casing diameter 1 inches

Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design	Well Data		Formation Description
	Concrete Surface Seal Depth	2' FT	FT
	Blank Casing (dia x dep)		CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS
	Material		
	Backfill	FT	
	Type		FT
	Seal	FT	
	Gravel Pack	FT	
	Material		
	Screen (dia x dep)		FT
	Slot Size		
	Material		
	Well Depth	FT	
	Backfill	20	
	Material	CHIPS	
	Total Hole Depth	20 FT	

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE09945

Ecology Well ID Tag No. BIE-816

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80645

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.760991

Longitude (Example: -120.12345) -122.207253

(WGS 84 Coordinate System)

Borehole diameter 3.5 inches Casing diameter 1 inches

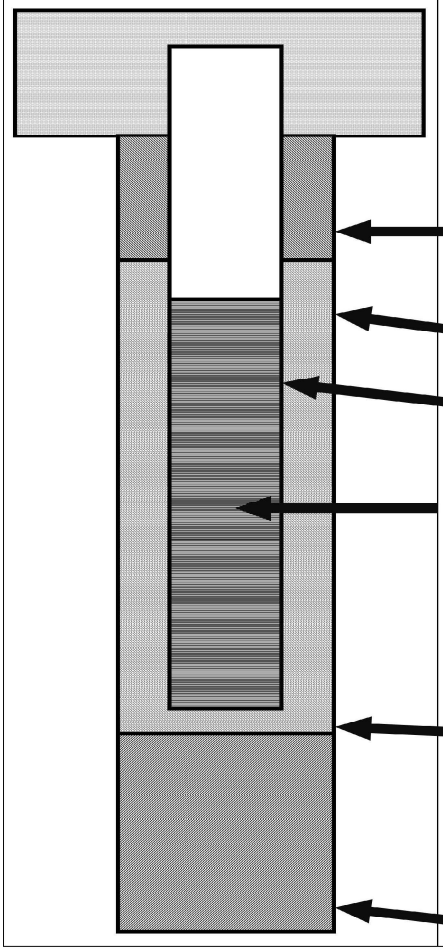
Static water level 7 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	19	
Material	CHIPS	
Total Hole Depth	19	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE09945

Ecology Well ID Tag No. BIE-817

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE81004

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 18304 BOTHELL WAY NE

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.761040

Longitude (Example: -120.12345) -122.207108

(WGS 84 Coordinate System)

Borehole diameter 3.5 inches Casing diameter 1 inches

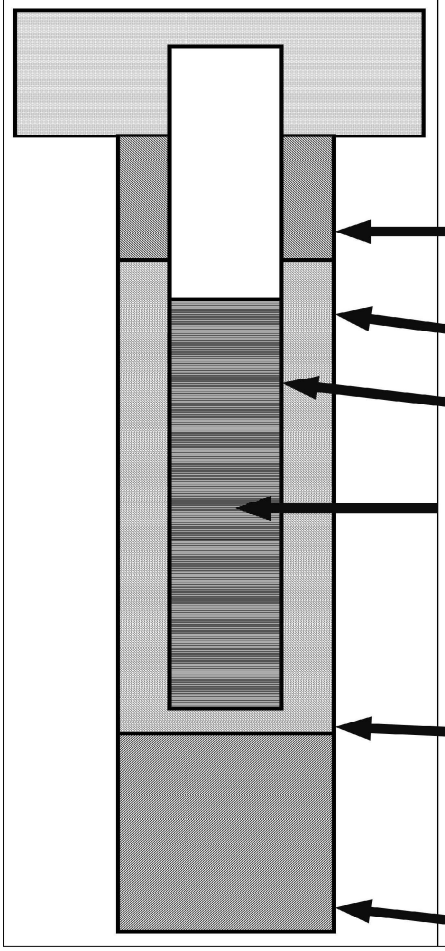
Static water level 7 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	19	
Material	CHIPS	
Total Hole Depth	19	FT

Formation Description

FT

CHIP IN PLACE BACKFILLED FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE09945

Ecology Well ID Tag No. BIR-812

Site Well Name 1S1E 812

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80645

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76099

Longitude (Example: -120.12345) -122.20707

(WGS 84 Coordinate System)

Borehole diameter 3.5 inches Casing diameter 1 inches

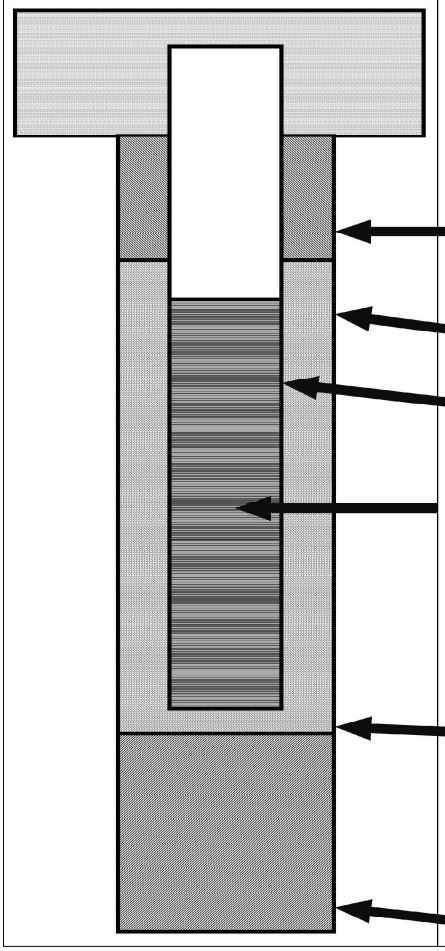
Static water level 7 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	19	
Material	CHIPS	
Total Hole Depth	19	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-503

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76099

Longitude (Example: -120.12345) -122.20722

(WGS 84 Coordinate System)

Borehole diameter 10 inches Casing diameter 4 inches

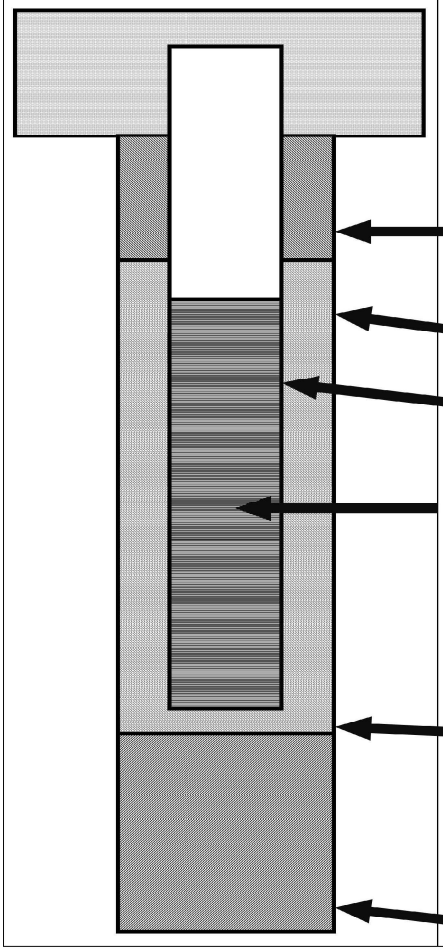
Static water level 12 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	23	
Material	CHIPS	
Total Hole Depth	23	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-504

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76098

Longitude (Example: -120.12345) -122.20715

(WGS 84 Coordinate System)

Borehole diameter 10 inches Casing diameter 4 inches

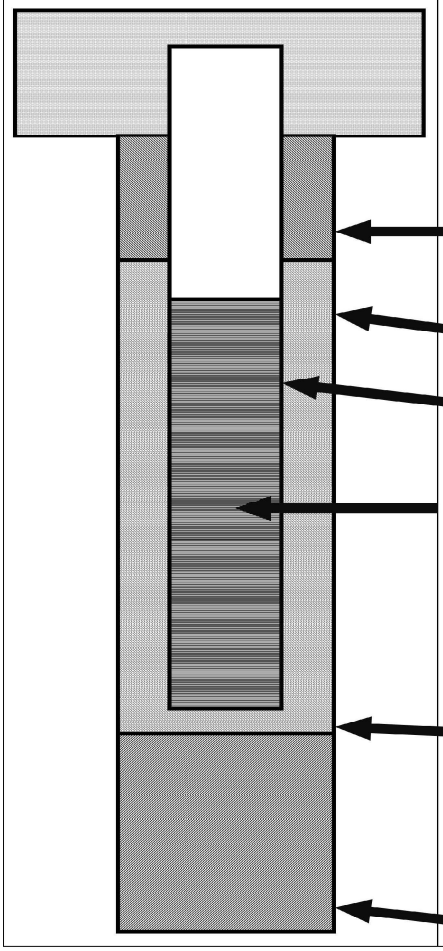
Static water level 12 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	3'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	23	
Material	CHIPS	
Total Hole Depth	23	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-505

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76098

Longitude (Example: -120.12345) -122.20730

(WGS 84 Coordinate System)

Borehole diameter 10 inches Casing diameter 4 inches

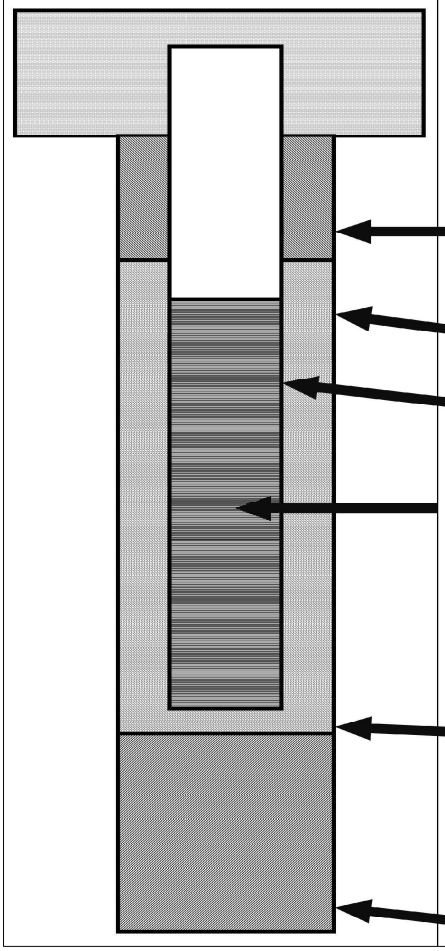
Static water level 12 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	3'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	23	
Material	CHIPS	
Total Hole Depth	23	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-506

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76094

Longitude (Example: -120.12345) -122.20702

(WGS 84 Coordinate System)

Borehole diameter 10 inches Casing diameter 4 inches

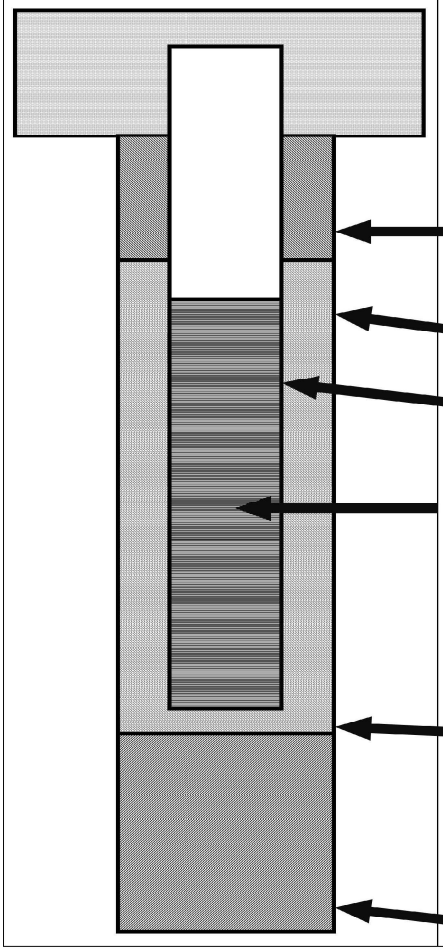
Static water level 12 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	3'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	23	
Material	CHIPS	
Total Hole Depth	23	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-507

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76109

Longitude (Example: -120.12345) -122.20701

(WGS 84 Coordinate System)

Borehole diameter 10.25 inches Casing diameter 4 inches

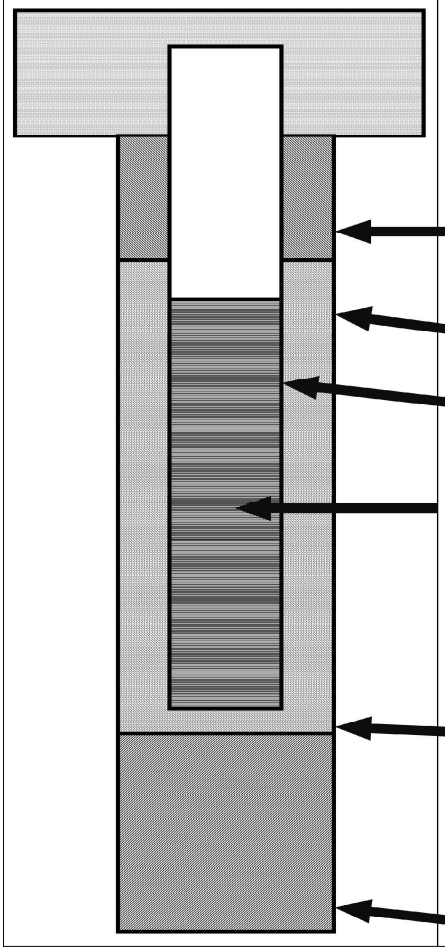
Static water level 12 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	3'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	23	
Material	CHIPS	
Total Hole Depth	23	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-508

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76117

Longitude (Example: -120.12345) -122.20698

(WGS 84 Coordinate System)

Borehole diameter 10.25 inches Casing diameter 4 inches

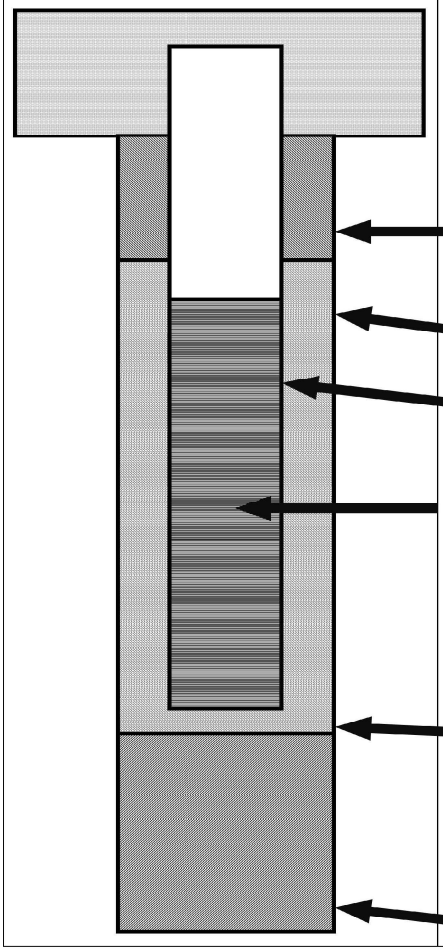
Static water level 12 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	3'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	23	
Material	CHIPS	
Total Hole Depth	23	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-551

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76099

Longitude (Example: -120.12345) -122.20708

(WGS 84 Coordinate System)

Borehole diameter 2.25 inches Casing diameter 1 inches

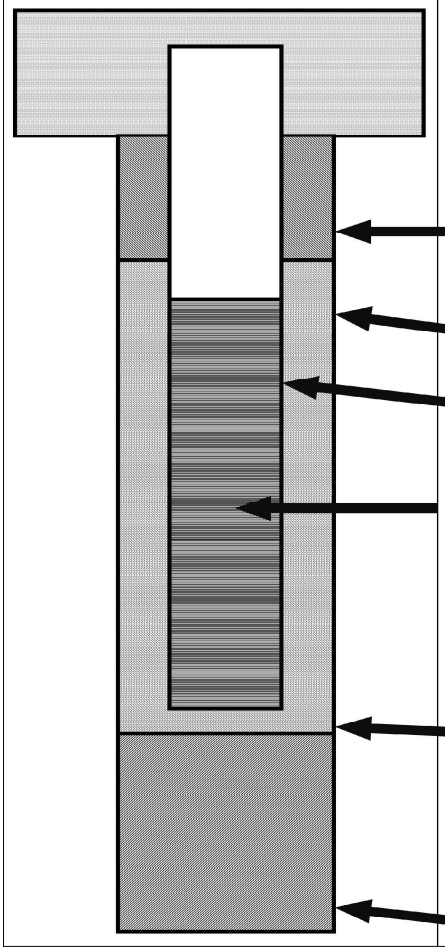
Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	13	
Material	CHIPS	
Total Hole Depth	13	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-552

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76093

Longitude (Example: -120.12345) -122.20713

(WGS 84 Coordinate System)

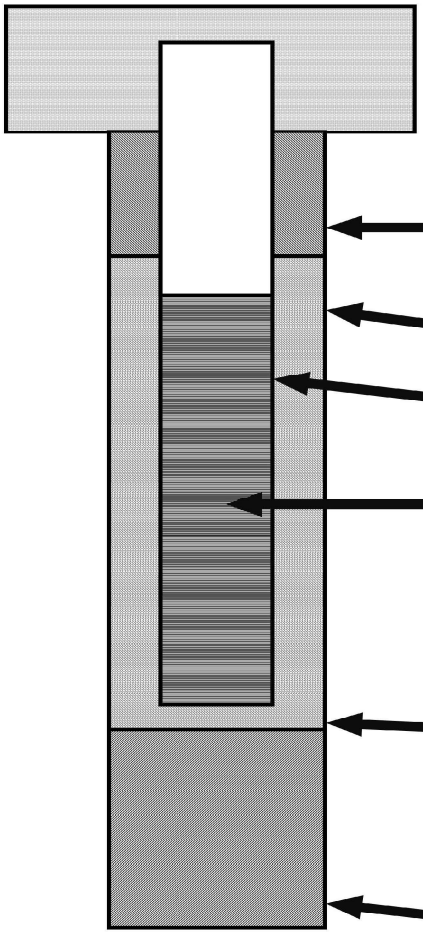
Borehole diameter 2.25 inches Casing diameter 1 inches

Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design	Well Data		Formation Description
	Concrete Surface Seal Depth	2' FT	FT
	Blank Casing (dia x dep)		CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS
	Material		
	Backfill	FT	
	Type		FT
	Seal	FT	
	Gravel Pack	FT	
	Material		
	Screen (dia x dep)		FT
	Slot Size		
	Material		
	Well Depth	FT	
	Backfill	13	
	Material	CHIPS	
	Total Hole Depth	13 FT	

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-553

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76096

Longitude (Example: -120.12345) -122.20710

(WGS 84 Coordinate System)

Borehole diameter 2.25 inches Casing diameter 1 inches

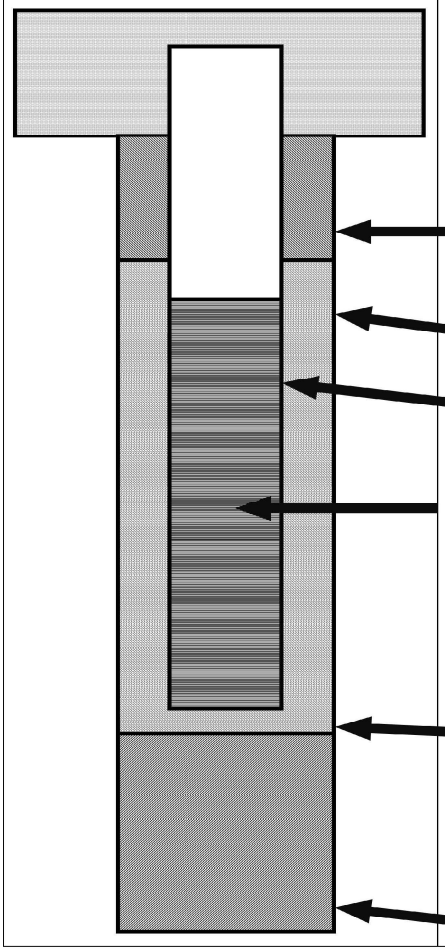
Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	13	
Material	CHIPS	
Total Hole Depth	13	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-554

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76101

Longitude (Example: -120.12345) -122.20715

(WGS 84 Coordinate System)

Borehole diameter 2.25 inches Casing diameter 1 inches

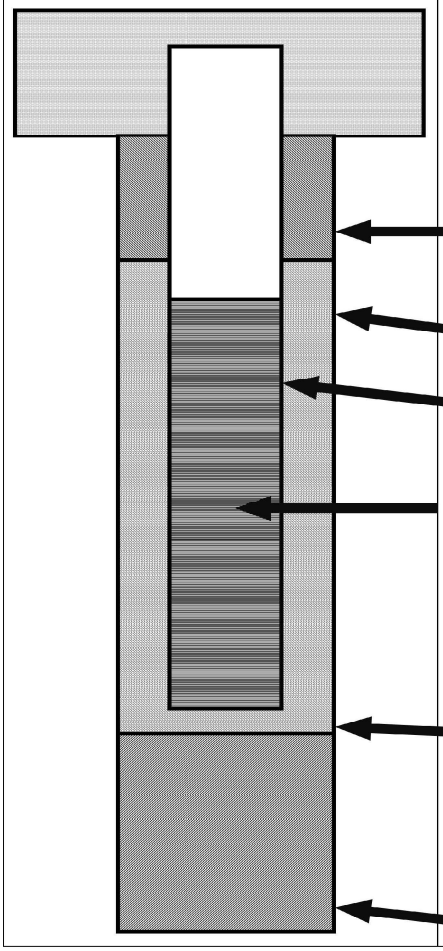
Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	13	
Material	CHIPS	
Total Hole Depth	13	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-555

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76096

Longitude (Example: -120.12345) -122.20715

(WGS 84 Coordinate System)

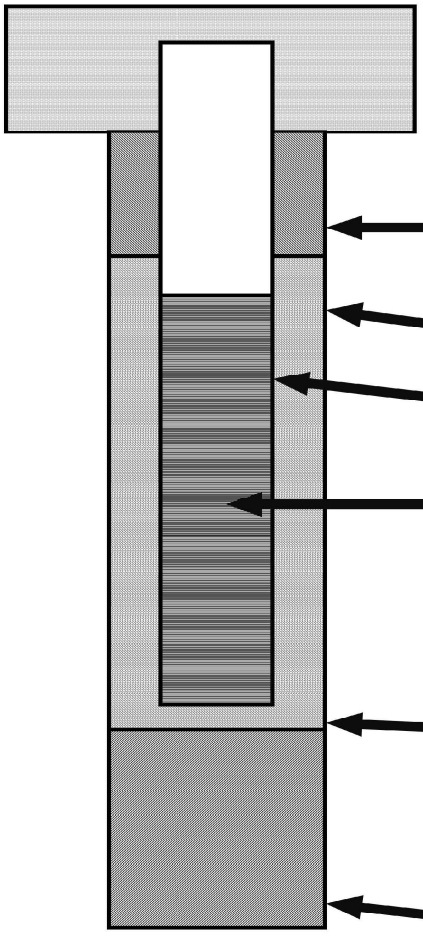
Borehole diameter 2.25 inches Casing diameter 1 inches

Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design	Well Data		Formation Description
	Concrete Surface Seal Depth	2' FT	FT
	Blank Casing (dia x dep)		CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS
	Material		
	Backfill	FT	
	Type		FT
	Seal	FT	
	Gravel Pack	FT	
	Material		
	Screen (dia x dep)		FT
	Slot Size		
	Material		
	Well Depth	FT	
	Backfill	13	
	Material	CHIPS	
	Total Hole Depth	13 FT	

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-556

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76096

Longitude (Example: -120.12345) -122.20716

(WGS 84 Coordinate System)

Borehole diameter 2.25 inches Casing diameter 1 inches

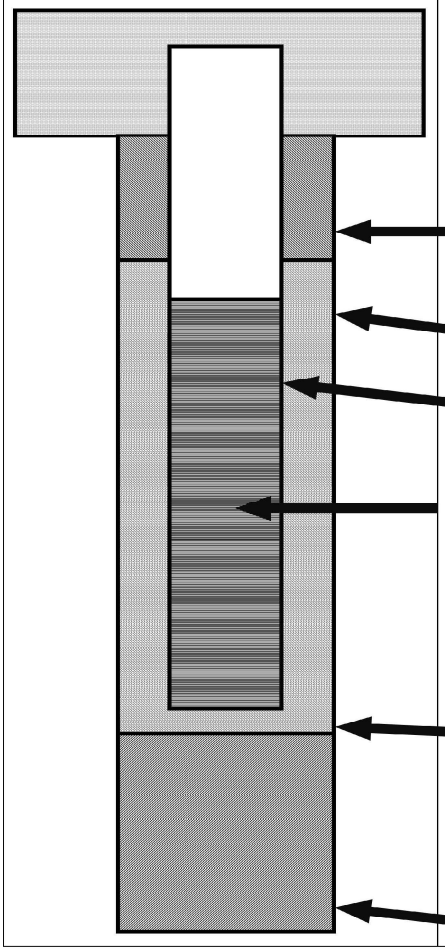
Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2' FT
Blank Casing (dia x dep)	
Material	
Backfill	FT
Type	
Seal	FT
Gravel Pack	FT
Material	
Screen (dia x dep)	
Slot Size	
Material	
Well Depth	FT
Backfill	13
Material	CHIPS
Total Hole Depth	13 FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-557

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76094

Longitude (Example: -120.12345) -122.20717

(WGS 84 Coordinate System)

Borehole diameter 2.25 inches Casing diameter 1 inches

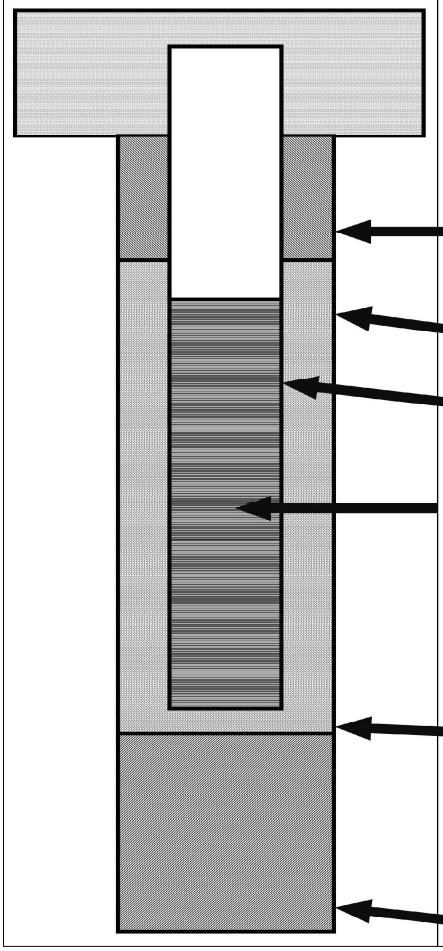
Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing ____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	13	
Material	CHIPS	
Total Hole Depth	13	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-558

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76094

Longitude (Example: -120.12345) -122.20720

(WGS 84 Coordinate System)

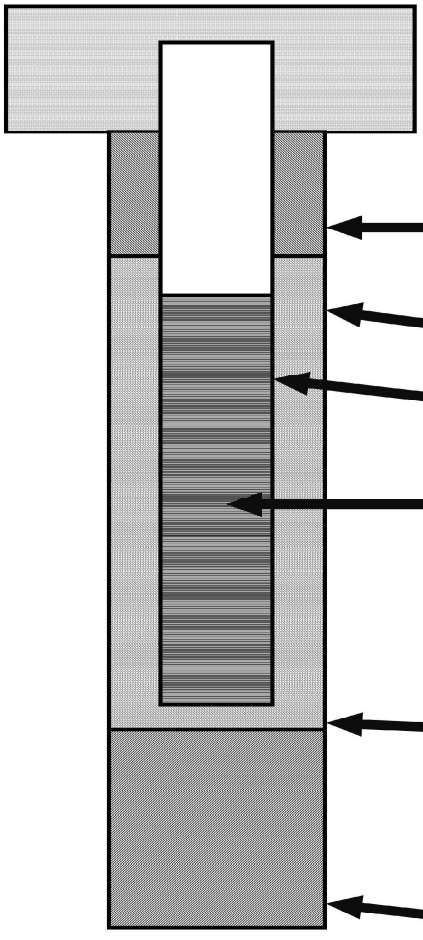
Borehole diameter 2.25 inches Casing diameter 1 inches

Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design	Well Data		Formation Description
	Concrete Surface Seal Depth	2' FT	FT
	Blank Casing (dia x dep)		CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS
	Material		
	Backfill	FT	
	Type		FT
	Seal	FT	
	Gravel Pack	FT	
	Material		
	Screen (dia x dep)		FT
	Slot Size		
	Material		
	Well Depth	FT	
	Backfill	13	
	Material	CHIPS	
	Total Hole Depth	13 FT	

DEPARTMENT OF ECOLOGY
State of Washington

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction
☒ Decommission ⇨ Original NOI No. RE10886

Ecology Well ID Tag No. BJA-559

Site Well Name

Consulting Firm TITAN

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for?

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) Pickering, Cole

Driller/Engineer/Trainee Signature *Cole Pickering*

License No. 3216

Company Name Anderson Environmental Contracting LLC

If trainee box is checked, sponsor's license number:

Sponsor's signature

Notice of Intent No. AE80643

Type of Well:

☒ Resource Protection Well ☐ Injection Point
☐ Remediation Well ☐ Grounding Well
☐ Geotechnical Soil Boring ☐ Ground Source Heat Pump
☐ Environmental Boring ☐ Other

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner CITY OF BOTHELL

Well Street Address 10032 NE 183RD STREET

City BOTHELL County KING

Tax Parcel No. 0726059191

Location (see instructions): WWM ☐ or EWM ☒

NE ¼-¼ NE ¼, Section 7 Town 26N Range 5E

Latitude (Example: 47.12345) 47.76099

Longitude (Example: -120.12345) -122.20724

(WGS 84 Coordinate System)

Borehole diameter 2.25 inches Casing diameter 1 inches

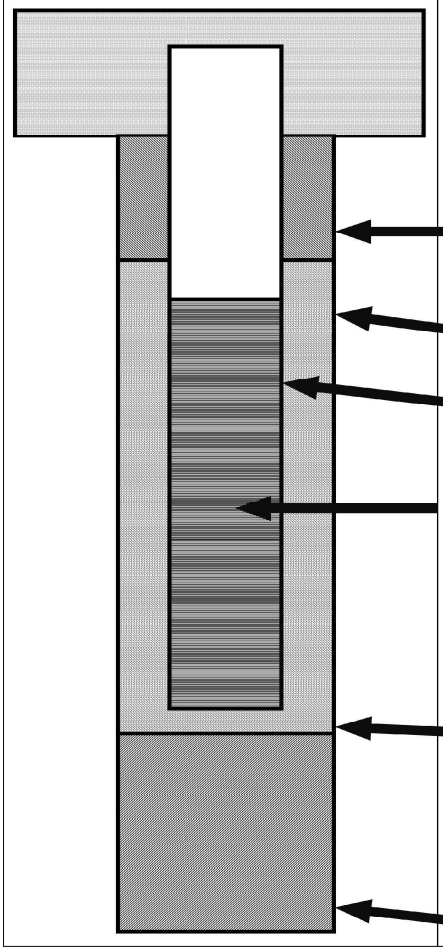
Static water level 8 ft below top of casing Date 12/01/2023

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date 12/01/2023 Completed Date 12/01/2023

Construction/Design



Well Data

Concrete Surface Seal Depth	2'	FT
Blank Casing (dia x dep)		
Material		
Backfill		FT
Type		
Seal		FT
Gravel Pack		FT
Material		
Screen (dia x dep)		
Slot Size		
Material		
Well Depth		FT
Backfill	13	
Material	CHIPS	
Total Hole Depth	13	FT

Formation Description

FT

CHIP IN PLACE BACKFILLD FROM BOTTOM TO TOP WITH BENT CHIPS

FT

FT

Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Appendix B
Disposal Documentation

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA
,

TICKET NO.	1215049206	TICKET TIME	8:22:45AM	DATE	11/27/2023
Customer No. 7833515	Payment Type Account	Customer Name TITAN EARTHWORK LLC			Order No. 83338
Customer Job. No.	Customer P.O. 2343		Map Ref. /		Disp. Ord. #
Truck Type Solo	Truck No. T753	Vehicle or License Plate No.	Trailer or License Plate No.		Zone
Hauler/Carrier No.	Driver's Name	Delivered/Ordered 8.35 /	Load No. 1		Running Total 8.35

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96005	ASPH COLD MIX	8.35		

SCALE WEIGHT		GROSS & TARE
Gross	53,780 LB	
Tare	37,080 LB/P.T.*	☐ Scale 1 ☒ Scale 2
Net	16,700 LB *	X Justin Bauer — Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

No one available to sign, customer waives receipt signature. ☐	Received by Signature X	Print Name (Customer) X	Driver's Signature X	Arrive Job		Start Unloading		Finish Unloading	
Standby Time		Customer's Initials X							

Fuel Surcharge	
Sales Tax	
Total	
Standby Time	
This Tickets Grand Total	

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
99465900
Woodinville RCM
6524 240th Street Southeast
Woodinville, WA 98072
425-961-7100

TICKET NO.	1917028481	TICKET TIME	8:35:05AM	DATE	11/29/2023
Customer No.	Payment Type	Customer Name			Order No.
7833515	Account	TITAN EARTHWORK LLC			10134140
Customer Job. No.	Customer P.O.			Map Ref.	Disp. Ord. #
	2343			/	
Truck Type	Truck No.	Vehicle or License Plate No.		Trailer or License Plate No.	Zone
Super Solo	TIT753				
Hauler/Carrier No.	Driver's Name	Delivered/Ordered		Load No.	Running Total
		12.00 /		1	12.00

WR/DF J# 2343 10032 NE 183RD ST
10032 NE 183RD ST
BOTHELL

Product	Description	Total	Unit Price	Amount
99050	DUMP FEE ASPHALT (CY)	12.00		

SCALE WEIGHT	GROSS & TARE		
Gross 37,240 LB	☒ Scale 1 ☐ Scale 2	**A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.**	Fuel Surcharge
Tare 36,900 LB/P.T.*			Sales Tax
Net 340 LB	X Molina, Robert EXT YR Deputy Weighmaster	**LIABILITY WAIVER** Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.	Total

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature	Standby Time
	X	X	X	

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials	This Tickets Grand Total
								X	

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
99465900
Woodinville RCM
6524 240th Street Southeast
Woodinville, WA 98072
425-961-7100

TICKET NO.	1917028489	TICKET TIME	9:03:51AM	DATE	11/29/2023
Customer No. 7833515	Payment Type Account	Customer Name TITAN EARTHWORK LLC			Order No. 10134140
Customer Job. No.	Customer P.O. 2343		Map Ref. /		Disp. Ord. #
Truck Type Super Solo	Truck No. TIT753	Vehicle or License Plate No.	Trailer or License Plate No.		Zone
Hauler/Carrier No.	Driver's Name	Delivered/Ordered 10.00 /	Load No. 1		Running Total 10.00

WR/DF J# 2343 10032 NE 183RD ST
10032 NE 183RD ST
BOTHELL

Product	Description	Total	Unit Price	Amount
99100	DUMP FEE CONCRETE (CY)	10.00		

SCALE WEIGHT	GROSS & TARE		
Gross 0 LB	☒ Scale 1 ☐ Scale 2	A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.	Fuel Surcharge
Tare 36,900 LB/P.T.*	X Molina, Robert Deputy Weighmaster	**LIABILITY WAIVER** Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line. EXT yr	Sales Tax
Net 0 LB			Total

No one available to sign, customer waives receipt signature. ☐	Received by Signature X	Print Name (Customer) X	Driver's Signature X	Standby Time

Arrive Job	Start Unloading	Finish Unloading	Standby Time	Customer's Initials	This Tickets Grand Total
				X	

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
99465900
Woodinville RCM
6524 240th Street Southeast
Woodinville, WA 98072
425-961-7100

TICKET NO.	1917028497	TICKET TIME	9:49:42AM	DATE	11/29/2023

Customer No.	Payment Type	Customer Name	Order No.
7833515	Account	TITAN EARTHWORK LLC	10134140

Customer Job. No.	Customer P.O.	Map Ref.	Disp. Ord. #
	2343	/	

Truck Type	Truck No.	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Super Solo	TIT753			

Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No.	Running Total
		20.00 /	2	20.00

WR/DF J# 2343 10032 NE 183RD ST
10032 NE 183RD ST
BOTHELL

Product	Description	Total	Unit Price	Amount
99100	DUMP FEE CONCRETE (CY)	10.00		

SCALE WEIGHT

Gross 0 LB
Tare 36,900 LB/P.T.*
Net 0 LB

GROSS & TARE

☒ Scale 1 ☐ Scale 2

X Molina, Robert EXT OR
Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

Fuel Surcharge	
Sales Tax	
Total	
Standby Time	
This Tickets Grand Total	

No one available to sign, customer waives receipt signature. ☐	Received by Signature X	Print Name (Customer) X	Driver's Signature X

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials X

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
99465900
Woodinville RCM
6524 240th Street Southeast
Woodinville, WA 98072
425-961-7100

TICKET NO.	1917028562	TICKET TIME	7:45:12AM	DATE	11/30/2023

Customer No.	Payment Type	Customer Name	Order No.
7833515	Account	TITAN EARTHWORK LLC	10134140

Customer Job. No.	Customer P.O.	Map Ref.	Disp. Ord. #
	2343	/	

Truck Type	Truck No.	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Super Solo	TIT753			

Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No.	Running Total
		12.00 /	1	12.00

WR/DF J# 2343 10032 NE 183RD ST
10032 NE 183RD ST
BOTHELL

Product	Description	Total	Unit Price	Amount
99100	DUMP FEE CONCRETE (CY)	12.00		

SCALE WEIGHT	GROSS & TARE
Gross 37,360 LB	☒ Scale 1 ☐ Scale 2
Tare 36,900 LB/P.T.*	X Makenzie
Net 460 LB	Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

Fuel Surcharge	
Sales Tax	
Total	
Standby Time	
This Tickets Grand Total	

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature
	X	X	X

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials
								X

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
99465900
Woodinville RCM
6524 240th Street Southeast
Woodinville, WA 98072
425-961-7100

TICKET NO.	1917028629	TICKET TIME	7:39:44AM	DATE	12/1/2023

Customer No.	Payment Type	Customer Name	Order No.
7833515	Account	TITAN EARTHWORK LLC	10134140

Customer Job. No.	Customer P.O.	Map Ref.	Disp. Ord. #
	2343	/	

Truck Type	Truck No.	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Super Solo	TIT753			

Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No.	Running Total
		10.00 /	1	10.00

WR/DF J#2343 10032 NE 183RD ST
10032 NE 183RD ST
BOTHELL

Product	Description	Total	Unit Price	Amount
99100	DUMP FEE CONCRETE (CY)	10.00		

SCALE WEIGHT

Gross 37,540 LB
Tare 36,900 LB/P.T.*
Net 640 LB

GROSS & TARE

☒ Scale 1 ☐ Scale 2

X Kendell
Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

Fuel Surcharge	
Sales Tax	
Total	
Standby Time	
This Tickets Grand Total	

No one available to sign, customer waives receipt signature. ☐	Received by Signature X	Print Name (Customer) X	Driver's Signature X

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials X

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
99465900
Woodinville RCM
6524 240th Street Southeast
Woodinville, WA 98072
425-961-7100

TICKET NO.	1917028637	TICKET TIME	8:23:13AM	DATE	12/1/2023

Customer No.	Payment Type	Customer Name	Order No.
7833515	Account	TITAN EARTHWORK LLC	10134140

Customer Job. No.	Customer P.O.	Map Ref.	Disp. Ord. #
	2343	/	

Truck Type	Truck No.	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Super Solo	TIT753			

Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No.	Running Total
		10.00 /	1	10.00

WR/DF J#2343 10032 NE 183RD ST
10032 NE 183RD ST
BOTHELL

Product	Description	Total	Unit Price	Amount
99050	DUMP FEE ASPHALT (CY)	10.00		

SCALE WEIGHT

Gross 37,200 LB

Tare 36,900 LB/P.T.*

Net 300 LB

GROSS & TARE

☒ Scale 1 ☐ Scale 2

X Kendell
Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

Fuel Surcharge	
Sales Tax	
Total	
Standby Time	
This Tickets Grand Total	

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature
	X	X	X

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials
								X

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA
,

TICKET NO.	1215049656	TICKET TIME	7:11:37AM	DATE	12/29/2023
Customer No.	Payment Type	Customer Name			Order No.
7833515	Account	TITAN EARTHWORK LLC			83338
Customer Job. No.	Customer P.O.			Map Ref.	Disp. Ord. #
	2343			/	
Truck Type	Truck No.	Vehicle or License Plate No.		Trailer or License Plate No.	Zone
Solo	T751				
Hauler/Carrier No.	Driver's Name	Delivered/Ordered		Load No.	Running Total
		18.14 /		1	18.14

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96013	1/2" HMA	18.14		

SCALE WEIGHT	GROSS & TARE		
Gross 0 LB	☒ Scale 1 ☐ Scale 2	A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.	Fuel Surcharge
Tare 0 LB/P.T.	X Justin Bauer	**LIABILITY WAIVER**	Sales Tax
Net 0 LB	Deputy Weighmaster	Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.	Total

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature	Standby Time
	X	X	X	

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials	This Tickets Grand Total
								X	

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA

TICKET NO.	1215049657	TICKET TIME	7:13:36AM	DATE	12/29/2023
Customer No. 7833515	Payment Type Account	Customer Name TITAN EARTHWORK LLC			Order No. 83338
Customer Job. No.	Customer P.O. 2343		Map Ref. /		Disp. Ord. #
Truck Type Solo	Truck No. T751	Vehicle or License Plate No.	Trailer or License Plate No.		Zone
Hauler/Carrier No.	Driver's Name	Delivered/Ordered 1.00 /	Load No. 1		Running Total 1.00

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96029	LIQUID ASPH PG64-22 1BKT-2BLKS	1.00		

SCALE WEIGHT	GROSS & TARE		Fuel Surcharge	
Gross 0 LB *		A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.	Sales Tax	
Tare 29,820 LB/P.T.*	☒ Scale 1 ☐ Scale 2	LIABILITY WAIVER	Total	
Net 0 LB *	X Justin Bauer Deputy Weighmaster	Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.		

No one available to sign, customer waives receipt signature. ☐	Received by Signature X	Print Name (Customer) X	Driver's Signature X	Standby Time	
Arrive Job	Start Unloading	Finish Unloading	Standby Time	Customer's Initials X	This Tickets Grand Total

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA

TICKET NO.	1215049657	TICKET TIME	7:13:36AM	DATE	12/29/2023
Customer No. 7833515	Payment Type Account	Customer Name TITAN EARTHWORK LLC			Order No. 83338
Customer Job. No.	Customer P.O. 2343		Map Ref. /		Disp. Ord. #
Truck Type Solo	Truck No. T751	Vehicle or License Plate No.	Trailer or License Plate No.		Zone
Hauler/Carrier No.	Driver's Name	Delivered/Ordered 1.00 /	Load No. 1		Running Total 1.00

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96029	LIQUID ASPH PG64-22 1BKT-2BLKS	1.00		

SCALE WEIGHT	GROSS & TARE		Fuel Surcharge	
Gross 0 LB *		A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.	Sales Tax	
Tare 29,820 LB/P.T.*	☒ Scale 1 ☐ Scale 2	LIABILITY WAIVER	Total	
Net 0 LB *	X Justin Bauer Deputy Weighmaster	Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.		

No one available to sign, customer waives receipt signature. ☐	Received by Signature X	Print Name (Customer) X	Driver's Signature X	Standby Time	
Arrive Job	Start Unloading	Finish Unloading	Standby Time	Customer's Initials X	This Tickets Grand Total

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA
,

TICKET NO.	1215049658	TICKET TIME	8:32:31AM	DATE	12/29/2023

Customer No.	Payment Type	Customer Name	Order No.
7833515	Account	TITAN EARTHWORK LLC	83338

Customer Job. No.	Customer P.O.	Map Ref.	Disp. Ord. #
	2343	/	

Truck Type	Truck No.	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Solo	T803			

Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No.	Running Total
		38.26 /	2	38.26

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96013	1/2" HMA	20.12		

SCALE WEIGHT	GROSS & TARE		
Gross 0 LB	☒ Scale 1 ☐ Scale 2	A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.	Fuel Surcharge
Tare 0 LB/P.T.	X Justin Bauer	**LIABILITY WAIVER**	Sales Tax
Net 0 LB	Deputy Weighmaster	Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.	Total

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature	Standby Time
	X	X	X	

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials	This Tickets Grand Total
								X	

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA
,

TICKET NO.	1215049659	TICKET TIME	9:05:49AM	DATE	12/29/2023

Customer No.	Payment Type	Customer Name	Order No.
7833515	Account	TITAN EARTHWORK LLC	83338

Customer Job. No.	Customer P.O.	Map Ref.	Disp. Ord. #
	2343	/	

Truck Type	Truck No.	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Solo	T803			

Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No.	Running Total
		58.44 /	3	58.44

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96013	1/2" HMA	20.18		

SCALE WEIGHT		GROSS & TARE
Gross	0 LB	
Tare	0 LB/P.T.	☒ Scale 1 ☐ Scale 2
Net	0 LB	X Justin Bauer, Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

Fuel Surcharge	
Sales Tax	
Total	
Standby Time	
This Tickets Grand Total	

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature
	X	X	X

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials
								X

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA
,

TICKET NO.	1215049660	TICKET TIME	9:38:15AM	DATE	12/29/2023

Customer No.	Payment Type	Customer Name	Order No.
7833515	Account	TITAN EARTHWORK LLC	83338

Customer Job. No.	Customer P.O.	Map Ref.	Disp. Ord. #
	2343	/	

Truck Type	Truck No.	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Solo	T803			

Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No.	Running Total
		2.00 /	1	2.00

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96028	LIQUID ASPH PG64-22 2.25GAL BL	2.00		

SCALE WEIGHT

Gross 0 LB
Tare 26,700 LB/P.T.*
Net 0 LB

GROSS & TARE

☒ Scale 1 ☐ Scale 2

X Justin Bauer
Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

Fuel Surcharge	
Sales Tax	
Total	
Standby Time	
This Tickets Grand Total	

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature
	X	X	X

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials
								X

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA
,

TICKET NO.	1215049661	TICKET TIME	9:38:49AM	DATE	12/29/2023
Customer No. 7833515	Payment Type Account	Customer Name TITAN EARTHWORK LLC			Order No. 83338
Customer Job. No.	Customer P.O. 2343		Map Ref. /		Disp. Ord. #
Truck Type Solo	Truck No. T803	Vehicle or License Plate No.	Trailer or License Plate No.		Zone
Hauler/Carrier No.	Driver's Name	Delivered/Ordered 78.64 /	Load No. 4		Running Total 78.64

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96013	1/2" HMA	20.20		

SCALE WEIGHT		GROSS & TARE
Gross	0 LB	☒ Scale 1 ☐ Scale 2
Tare	0 LB/P.T.	X Justin Bauer
Net	0 LB	Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

Fuel Surcharge							
Sales Tax							
Total							
Standby Time							
This Tickets Grand Total							

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature	Customer's Initials
	X	X	X	X

Arrive Job		Start Unloading		Finish Unloading		Standby Time	

Heidelberg Materials

(888) 322-6847 425-961-7100

WEIGHMASTER STATION
98802121
Kenmore HMA
,

TICKET NO.	1215049664	TICKET TIME	10:37:02AM	DATE	12/29/2023

Customer No.	Payment Type	Customer Name	Order No.
7833515	Account	TITAN EARTHWORK LLC	83338

Customer Job. No.	Customer P.O.	Map Ref.	Disp. Ord. #
	2343	/	

Truck Type	Truck No.	Vehicle or License Plate No.	Trailer or License Plate No.	Zone
Solo	T803			

Hauler/Carrier No.	Driver's Name	Delivered/Ordered	Load No.	Running Total
		80.65 /	5	80.65

KEN/P 10032 NE 183RD BOTHELL
KEN/P 10032 NE 183RD BOTHELL

Product	Description	Total	Unit Price	Amount
96013	1/2" HMA	2.01		

SCALE WEIGHT

Gross 0 LB
Tare 0 LB/P.T.
Net 0 LB

GROSS & TARE

☒ Scale 1 ☐ Scale 2

X Justin Bauer
Deputy Weighmaster

A STANDBY SURCHARGE WILL BE ASSESSED FOR LOADS THAT EXCEED 10 MINUTES UNLOADING TIME.

LIABILITY WAIVER

Heidelberg Materials, (Inc.) will not assume Liability for any property damage or any equipment damage for any delivery beyond the curb line.

Fuel Surcharge	
Sales Tax	
Total	
Standby Time	
This Tickets Grand Total	

No one available to sign, customer waives receipt signature. ☐	Received by Signature	Print Name (Customer)	Driver's Signature
	X	X	X

Arrive Job		Start Unloading		Finish Unloading		Standby Time		Customer's Initials
								X

KANGLEY ROCK & RECYCLING

ACCOUNTING: 9125 TENTH AVENUE SOUTH
SEATTLE, WA 98108 • (206) 768-1000

A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC.

Kangley Rock & Recycling Locations

KANGLEY PIT (Plant # 21)
32500 SE Kent-Kangley Rd., Ravensdale, WA 98051
BLACK RIVER (Plant # 22) - (206) 658-0912
510 Monster Rd. Renton, WA 98055
LAKE FRANCIS (Plant # 23) - (206) 658-0872
22501 SE Lake Francis Rd. Maple Valley, WA 98038
Cedar Mountain Reclamation
17877 Cedar Grove Rd. SE, Maple Valley, WA 98038
Plant #20 - (206) 658-0913

DELIVERY TICKET

ACCOUNTING (206) 768-1000
FAX (206) 763-2730
SALES & ORDER DESK (206) 768-1000

MAP LOCATE	LEAVE PLANT	ARRIVE JOB	LEAVE JOB	ARRIVE PLANT

DATE	CUSTOMER NO.	ORDER NO.	PROJECT	PLANT #
11/28/2023	892305	786834		22

CUSTOMER NAME	CUSTOMER P.O.	JOB NO.	DELIVERY TICKET NO.
TITAN EARTHWORK LLC	2343	000050	540949

JOB ADDRESS
10032 NE 183RD ST
BOTHELL

SPECIAL INSTRUCTIONS

COLLECT ON DELIVERY (C.O.D.)

☐ CASH ☐ CHECK # _____ ☐ CHARGE

CARD # _____ EXP. ___/___

☐ VISA ☐ MASTERCARD ☐ DISCOVER

QUANTITY	U.M.	PRODUCT CODE	DESCRIPTION	TONS	TOTAL TONS	UNIT PRICE	AMOUNT
1.00		LD 91012S	DUMP FEE ASPHLT RUBBLE SC	1.00		1.00	

Gross 36920.00 Tare 36920.00 Net 0.00

DRIVER	TRUCK NO.	ORDERED BY	REMIT PAYMENT TO 9125 10th AVE. S. SEATTLE, WA 98108 TERMS ON REVERSE	SUB-TOTAL	
	TIT753				
DISPATCHER	TAX CODE	TIME DUE		SALES TAX	
	WA	1 13:19			
				BALANCE FORWARD	
				TOTAL AMOUNT	

RELEASE — CUSTOMER RELEASES AND AGREES TO HOLD HARMLESS **KANGLEY ROCK & RECYCLING**, A DIVISION OF GARY MERLINO CONSTRUCTION COMPANY, INC. FOR ANY DAMAGE TO HIS REAL OR PERSONAL PROPERTY CAUSED BY DELIVERY OF MATERIALS LISTED ABOVE. DETAILS ON REVERSE.

CUSTOMER SIGNATURE K. Lackner

PRINT NAME K. LACKNER DATE 11/28/23

REV 10-2022

CUSTOMER COPY

Date	Truck	Customer Name	Container Number	Container Size	Comm Code	Account #	Job #	Scale Ticket #	PO# or Seal#	Time	Gross Wgt	Tare Wgt	Net	Tons
12/12/23	197	TITAN EARTHWORKS	GCEU425439	20	67	15819	TB17757	315753		10:52	79400	39100	40300	20.15
12/12/23	128	TITAN EARTHWORKS	TOLU457269	20	67	15819	TB17757	315755		11:47	78600	35000	43600	21.8
12/12/23	190	TITAN EARTHWORKS	TOLU422199	20	67	15819	TB17757	315756		12:11	72120	37000	35120	17.56
12/12/23	197	TITAN EARTHWORKS	RBSU200271	20	67	15819	TB17757	315757		12:12	90800	39100	51700	25.85
12/12/23	128	TITAN EARTHWORKS	RBSU200436	20	67	15819	TB17757	315758		2:12	89280	35000	54280	27.14
12/12/23	190	TITAN EARTHWORKS	RBSU200209	20	67	15819	TB17757	315759		2:25	89480	37000	52480	26.24
12/12/23	197	TITAN EARTHWORKS	RBSU200177	20	67	15819	TB17757	315761		2:58	88920	39100	49820	24.91

REPUBLIC SERVICES

315753

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 196ma

79400	GROSS
39100	TARE
	NET

ACCT # 15819 JOB # 17757 TB
CONT # SCFU 425439
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-12-23
TIME IN: 10:52

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315755

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 128

78600	GROSS
35000	TARE
	NET

TB
ACCT # 15819 JOB # 17757
CONT # TCLU 457269
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12/12/23
TIME IN: 11:47

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315756

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 190 ema

72120 GROSS
37600 TARE
NET

ACCT # 15819 JOB # 17757
CONT # TCLU 422199
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-12-23
TIME IN: 2.11

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315757

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 197 ema

90800 GROSS
39100 TARE
NET

ACCT # 15819 JOB # 17757
CONT # KRSU2002711
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-12-23
TIME IN: 1.08

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

REPUBLIC SERVICES

315758

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 128

89280	GROSS	
35000	TARE	
	NET	

TB

ACCT # 15819 JOB # 17757

CONT # RBSU200436

CITY

67

DATE: _____ 20 ____

TIME OUT: _____

DATE: 12/12/23

TIME IN: 2:12

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315759

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 190

89480	GROSS	
37000	TARE	
	NET	

TB

ACCT # 15819 JOB # 17757

CONT # RBSU200209

CITY

67

DATE: _____ 20 ____

TIME OUT: _____

DATE: 12/12/23

TIME IN: 2:25

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

315761

REPUBLIC SERVICES

TRUCK # 197

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

88900	GROSS	
39100	TARE	
	NET	

TB

ACCT # 15819 JOB # 17757

CONT # RBSU200177

CITY

67

DATE: _____ 20 ____

TIME OUT: _____

DATE: 12/12/23

TIME IN: 8:58

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

Date	Truck	Customer Name	Container Number	Container Size	Comm Code	Account #	Job #	Scale Ticket #	PO# or Seal#	Time	Gross Wgt	Tare Wgt	Net	Tons
12/13/23	197	TITAN EARTHWORKS	RBSU200263	20	67	15819	TB17757	315764		8:34	100620	39100	61520	30.76
12/13/23	190	TITAN EARTHWORKS	RBSU200355	20	67	15819	TB17757	315765		9:05	100200	39500	60700	30.35
12/13/23	107	TITAN EARTHWORKS	RBSU200383	20	67	15819	TB17757	315767		9:19	93600	35000	58600	29.3
12/13/23	197	TITAN EARTHWORKS	GCEU4250350	20	67	15819	TB17757	315770		10:56	91000	39100	51900	25.95
12/13/23	190	TITAN EARTHWORKS	RBSU200313	20	67	15819	TB17757	315772		12:12	87880	49500	38380	19.19
12/13/23	107	TITAN EARTHWORKS	RBSU200322	20	67	15819	TB17757	315773		1:02	89080	33900	55180	27.59
12/13/23	197	TITAN EARTHWORKS	RBSU200379	20	67	15819	TB17757	315776		2:02	102480	39100	63380	31.69
12/13/23	190	TITAN EARTHWORKS	RBSU200176	20	67	15819	TB17757	315777		2:36	90460	39500	50960	25.48
12/13/23	107	TITAN EARTHWORKS	RBSU200265	20	67	15819	TB17757	315778		2:48	96040	33900	62140	31.07
12/13/23	197	TITAN EARTHWORKS	RBSU200294	20	67	15819	TB17757	315779		4:02	92400	39100	53300	26.65

REPUBLIC SERVICES

315764

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 197 Oma

100620 GROSS
39100 TARE
NET

ACCT # 15819 JOB # TB 17757
CONT # TRSU200263
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-13-23
TIME IN: 8:34

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

REPUBLIC SERVICES

315765

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 196 Oma

100300 GROSS
39500 TARE
NET

ACCT # 15819 JOB # TB 17757
CONT # TRSU200355
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-13-23
TIME IN: 9:05

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315767

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 107 Oma

93600	GROSS
35000	TARE
	NET

ACCT # 15819 JOB # TB 17757
CONT # RRSU260383
CITY 67

DATE: _____ 20 _____
TIME OUT: _____
DATE: 12-13-23
TIME IN: 9.19

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

REPUBLIC SERVICES

315770

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 197 Oma

91000	GROSS
39100	TARE
	NET

ACCT # 15819 JOB # TB 17757
CONT # GCEU4250500
CITY 67

DATE: _____ 20 _____
TIME OUT: _____
DATE: 12-13-23
TIME IN: 10.56

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RIS

315772

REPUBLIC SERVICES

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 190 ona

97880 GROSS
49500 TARE
NET

ACCT # 15819 JOB # TB 17757
CONT # RBSU200313
CITY 67

DATE: _____ 20 _____
TIME OUT: _____
DATE: 12-13-23
TIME IN: 12:12

CUSTOMER # titan Earthworks NOTICE: FACILITIES USED AT CUSTOMER'S RISK

315773

REPUBLIC SERVICES

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 107

89080 GROSS
33900 TARE
NET

ACCT # 15819 JOB # TB 17757
CONT # RBSU200333
CITY _____

DATE: _____ 20 _____
TIME OUT: _____
DATE: 12/13/23
TIME IN: 1:02

CUSTOMER # Titan NOTICE: FACILITIES USED AT CUSTOMER'S RISK

REPUBLIC SERVICES

315776

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 197

102480	GROSS
39100	TARE
	NET

ACCT # 15819 JOB # TB 17757
CONT # RBSU200879
CITY 67

DATE: _____ 20 ____
TIME OUT: _____
DATE: 12/13/23
TIME IN: 2:03

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315777

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 198

90460	GROSS
39500	TARE
	NET

ACCT # 15819 JOB # TB 17757
CONT # RBSU200176
CITY 67

DATE: _____ 20 ____
TIME OUT: _____
DATE: 12/13/23
TIME IN: 2:30

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

REPUBLIC SERVICES

315778

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 107

TB

96040	GROSS	
33900	TARE	
	NET	

ACCT # 15819 JOB # 17757
CONT # RBSU200265
CITY
67

DATE: ____ 20 ____
TIME OUT:
DATE: 12/13/23
TIME IN: 2:48

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

REPUBLIC SERVICES

315779

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 197

TB

92400	GROSS	
39100	TARE	
	NET	

ACCT # 15819 JOB # 17757
CONT # RBSU200294
CITY
67

DATE: ____ 20 ____
TIME OUT:
DATE: 12/13/23
TIME IN: 4:02

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

Date	Truck	Customer Name	Container Number	Container Size	Comm Code	Account #	Job #	Scale Ticket #	PO# or Seal#	Time	Gross Wgt	Tare Wgt	Net	Tons
12/14/23	197	TITAN EARTHWORKS	RBSU200248	20	67	15819	TB17757	315783		8:45	89940	39100	50840	25.42
12/14/23	107	TITAN EARTHWORKS	RBSU200169	20	67	15819	TB17757	315785		9:20	92900	33900	59000	29.5
12/14/23	190	TITAN EARTHWORKS	RBSU200252	20	67	15819	TB17757	315787		10:01	92360	37400	54960	27.48
12/14/23	197	TITAN EARTHWORKS	RBSU200230	20	67	15819	TB17757	315788		11:08	95460	39100	56360	28.18
12/14/23	107	TITAN EARTHWORKS	RBSU200301	20	67	15819	TB17757	315790		12:07	91740	33900	57840	28.92
12/14/23	190	TITAN EARTHWORKS	RBSU200375	20	67	15819	TB17757	315792		12:28	88540	37400	51140	25.57
12/14/23	197	TITAN EARTHWORKS	RBSU200384	20	67	15819	TB17757	315793		1:12	94240	39100	55140	27.57
12/14/23	107	TITAN EARTHWORKS	RBSU200220	20	67	15819	TB17757	315795		2:07	88260	33900	54360	27.18
12/14/23	190	TITAN EARTHWORKS	RBSU200298	20	67	15819	TB17757	315796		2:30	90320	37400	52920	26.46
12/14/23	197	TITAN EARTHWORKS	RBSU200121	20	67	15819	TB17757	315798		3:19	92340	39100	53240	26.62

315783

REPUBLIC SERVICES

TRUCK # 197 Oma

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

89940	GROSS	ACCT # 15819	JOB # 17757 TB
39180	TARE	CONT # RBSU2600248	
	NET	CITY 67	

DATE: _____ 20 _____
TIME OUT: 12-14-23
DATE:
TIME IN: 8:45

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

315785

REPUBLIC SERVICES

TRUCK # 107 Oma

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

93900	GROSS	ACCT # 15819	JOB # 17757 TB
33900	TARE	CONT # RBSU200169	
	NET	CITY 67	

DATE: _____ 20 _____
TIME OUT:
DATE: 12-14-23
TIME IN: 9:20

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

315787

REPUBLIC SERVICES

TRUCK # 196 Gma

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

92360	GROSS	
37460	TARE	
	NET	

ACCT # 15819 JOB # 17757 TB
CONT # RRSU200252
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-14-23
TIME IN: 10:01

OFFICE COPY

CUSTOMER # Titan Earthworks NOTICE: FACILITIES USED AT CUSTOMER'S RISK

315788

REPUBLIC SERVICES

TRUCK # 197 Gma

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

95460	GROSS	
39100	TARE	
	NET	

ACCT # 15819 JOB # 17757 TB
CONT # RRSU260230
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-14-23
TIME IN: 11:08

OFFICE COPY

CUSTOMER # Titan Earthworks NOTICE: FACILITIES USED AT CUSTOMER'S RISK

315790

REPUBLIC SERVICES

TRUCK # 107 oma

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

91740	GROSS	
33900	TARE	
	NET	

ACCT # 15819 JOB # 17757 TB
CONT # RBSU200301
CITY 67

DATE: _____ 20 _____
TIME OUT: 12-14-23
DATE: 12-14-23
TIME IN: 12:07

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

315792

REPUBLIC SERVICES

TRUCK # 196 oma

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

88540	GROSS	
37400	TARE	
	NET	

ACCT # 15819 JOB # 17757 TB
CONT # RBSU200375
CITY 67

DATE: _____ 20 _____
TIME OUT: 12-14-23
DATE: 12:08
TIME IN:

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

315793

REPUBLIC SERVICES

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 1970ma

94240 GROSS
39100 TARE
NET

ACCT # 15819 JOB # 17757 TB
CONT # RBSU200384
CITY
67

DATE: _____ 20 ____
TIME OUT: _____
DATE: 12-14-23
TIME IN: 1:12

CUSTOMER # Titan Earthworks NOTICE: FACILITIES USED AT CUSTOMER'S RIS

315795

REPUBLIC SERVICES

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 107

TB

85260 GROSS
33900 TARE
NET

ACCT # 15819 JOB # 17757
CONT # RBSU200220
CITY
67

DATE: _____ 20 ____
TIME OUT: _____
DATE: 12/14/23
TIME IN: 2:07

CUSTOMER # Titan NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

315796

REPUBLIC SERVICES

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 190

TB

90330 GROSS
37400 TARE
NET

ACCT # 15819 JOB # 17757
CONT # RBSU200298
CITY
67

DATE: _____ 20 _____
TIME OUT: _____
DATE: 12/14/23
TIME IN: 2:30

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

315798

REPUBLIC SERVICES

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 197

TB

92340 GROSS
39100 TARE
NET

ACCT # 15819 JOB # 17757
CONT # RBSU200121
CITY
67

DATE: _____ 20 _____
TIME OUT: _____
DATE: 12/14/23
TIME IN: 3:19

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

Date	Truck	Customer Name	Container Number	Container Size	Comm Code	Account #	Job #	Scale Ticket #	PO# or Seal#	Time	Gross Wgt	Tare Wgt	Net	Tons
12/15/23	197	TITAN EARTHWORKS	RBSU200303	20	67	15819	TB17757	315799		8:14	95160	39100	56060	28.03
12/15/23	190	TITAN EARTHWORKS	RBSU200412	20	67	15819	TB17757	315850		9:00	85220	39000	46220	23.11
12/15/23	107	TITAN EARTHWORKS	RBSU200214	20	67	15819	TB17757	315852		9:47	94180	33900	60280	30.14
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12/15/23	107	TITAN EARTHWORKS	RBSU200221	20	67	15819	TB17757	315856		11:48	88060	33900	54160	27.08
12/15/23	197	TITAN EARTHWORKS	RBSU200210	20	67	15819	TB17757	315857		12:30	85880	39100	46780	23.39
12/15/23	107	TITAN EARTHWORKS	RBSU200132	20	67	15819	TB17757	315858		1:44	89180	33900	55280	27.64
12/15/23	197	TITAN EARTHWORKS	RBSU200380	20	67	15819	TB17757	315859		3:02	112020	39100	73720	36.86

REPUBLIC SERVICES

315799

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 197 Oma

95160
39100

GROSS
TARE
NET

ACCT # 15819 JOB # 17757 TB
CONT # RBSU200383
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-15-23
TIME IN: 8:14

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

REPUBLIC SERVICES

315850

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 190 Oma

85220
39000

GROSS
TARE
NET

ACCT # 15819 JOB # 17757 TB
CONT # RBSU200412
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-15-23
TIME IN: 9:00

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315852

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 1076ma

94180
39900

GROSS
TARE
NET

ACCT # 15819 JOB # 17757 TB
CONT # RBSW200214
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-15-23
TIME IN: 9:47

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315854

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 1976ma

89400
39100

GROSS
TARE
NET

ACCT # 15819 JOB # 17757
CONT # RBSW200404
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-15-23
TIME IN: 10:30

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

315855

REPUBLIC SERVICES

TRUCK # 190 CMA

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

89140 GROSS
36500 TARE
NET

ACCT # 15819 JOB # 17757 TB
CONT # RRSU 200260
CITY 69

DATE: _____ 20 ____
TIME OUT:
DATE: 12-15-23
TIME IN: 11:16

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

315856

REPUBLIC SERVICES

TRUCK # 107

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

88060 GROSS
33980 TARE
NET

ACCT # 15819 JOB # 17757 TB
CONT # RRSU 200221
CITY 107

DATE: _____ 20 ____
TIME OUT:
DATE: 12/15
TIME IN: 1348

CUSTOMER # TITAN EARTHWORKS

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315857

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 197 Oma

85880 GROSS
39100 TARE
NET

ACCT # 15819 JOB # 17757 TB
CONT # RBSU200210
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-15-23
TIME IN: 12:30

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

OFFICE COPY

REPUBLIC SERVICES

315858

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TRUCK # 107 Oma

89180 GROSS
33900 TARE
NET

ACCT # 15819 JOB # 17757 TB
CONT # RBSU200132
CITY 67

DATE: _____ 20 _____
TIME OUT:
DATE: 12-15-23
TIME IN: 1:44

CUSTOMER # Titan Earthworks

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

315859

REPUBLIC SERVICES

TRUCK # 197

RABANCO COMPANY
2733 3rd Avenue South
Seattle, WA 98134
(206) 336-1365

TB

113820	GROSS	
39100	TARE	
	NET	

ACCT # 15819 JOB # 17757
CONT # RBSU 200380
CITY
67

DATE: 20
TIME OUT:
DATE: 12/15/23
TIME IN: 3:03

CUSTOMER # Titan

NOTICE: FACILITIES USED AT CUSTOMER'S RISK

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
WAS000021022	2	(800)424-9300	018615347 FLE

GENERATOR

5. Generator's Name and Mailing Address
ULTRA CUSTOM CLEANERS
CITY OF BOTHELL 18304 FOREST WA/ NE
BOTHELL WA 98011-1923
Generator's Phone: (425)427-5961

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
CHEMICAL WASTE MANAGEMENT, INC

U.S. EPA ID Number
ORD089452353

7. Transporter 2 Company Name
UPRR

U.S. EPA ID Number
NED001792910

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812-9709
Facility's Phone: (541)454-2643

U.S. EPA ID Number
ORD089452353

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3077, HAZARDOUS WASTE SOLID, N.O.S. (TETRACHLOROETHYLENE SOIL), 9, PGIII OR365969	16	DM	10,400	P	F002
X	2. NA3082, HAZARDOUS WASTE LIQUID, N.O.S. (TETRACHLOROETHYLENE, WATER), 9, PGIII OR365970	34	DM	17,000	P	F002
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 OR365969
2 OR365970
CHEMTREC# CCN24117

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: STEVEN M MORIKAWA
Signature
Month: 1 Day: 11 Year: 26

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Pete Laupati
Signature
Month: 1 Day: 11 Year: 26

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S INITIAL COPY

Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Appendix C
RRS Injection Summary Report

REGENESIS®

Technology-Based Solutions for the Environment



PROJECT NAME

Ultra Custom Care Cleaners

18140 Bothell Way NE
Bothell, Washington 98011

PREPARED FOR

Holt Services Inc.
Joe Rounds
JRounds@HoltServicesInc.com

PREPARED BY

REGENESIS
Spencer Lindgren
SLindgren@Regenesis.com

Friday, December 19th, 2025

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INTRODUCTION

Joe,

REGENESIS Remediation Services (RRS) completed an in-situ injection application of PlumeStop Liquid Activated Carbon® (PlumeStop), Sulifidated Micron Zero-Valent Iron® (S-MicroZVI), AquiFix Long-Lasting Colloidal Electron Donor® (AquiFix) and Bio-Dechlor Inoculum Plus® (BDI Plus) at the former Ultra Customer Care Cleaners site located at 18140 Bothell Way NE, Bothell, Washington 98011.

The goal of this project was to install multiple in-situ Permeable Adsorptive Barriers (PABs) and supplemental In-Situ Treatment Zones (ISTZs) with the combined technologies of PlumeStop, S-MicroZVI, AquiFix and BDI Plus. These integrated technologies provide colloidal activated carbon adsorption, abiotic dechlorination via In-Situ Chemical Reduction (ISCR), and anaerobic biodegradation via Enhanced Reductive Dechlorination (ERD) across the Total Treatment Zone (TTZ). The installed PABs and ISTZs were designed to immobilize a known Chlorinated Volatile Organic Compounds (CVOCs) contamination by mitigating downgradient plume migration and promoting long term reductive transformations. Impacted treatment zones were treated using Direct Push Technology (DPT) techniques utilizing a site and treatment zone specific dosage design.

RRS mobilized a support pickup truck, injection trailer, and personnel to the site and completed work over forty-five (45) days between September 29th, 2025, through November 23rd, 2025. RRS staffed this project with experienced personnel who ensured a safe and successful injection application.

We appreciate the collaboration and oversight provided by Kristin Anderson of Floyd Snider to help ensure compliance throughout the entire project on behalf of the City of Bothell.

Please review the attached application summary pages, injection logs, and photo logs for more details on the application.

RRS appreciates the opportunity to work at this site with Holt Services Inc. If you need additional information regarding the application process or attached field notes, please contact Isaac Gregg (IGregg@Regenesis.com) or Spencer Lindgren (SLindgren@Regenesis.com).

Sincerely,





Spencer Lindgren
Senior Project Supervisor
REGENESIS Remediation Services

Isaac Gregg
West Region Project Manager
REGENESIS Remediation Services

OVERVIEW

Project Details

Client: Holt Services Inc.
Project Name: Ultra Care Custom Cleaners
Project Dates: 9/25/2025 – 11/23/2025
Site Address: 18140 Bothell Way NE
Bothell, Washington 98011

Client Project Manager: Joe Rounds
RRS Project Manager: Isaac Gregg
RRS Project Supervisor: Spencer Lindgren
DPT Operations: Holt Services Inc.

Treatment Technology Details

PlumeStop Liquid Activated Carbon®

PlumeStop Liquid Activated Carbon consists of carbon particles milled to 1 to 2 micrometers in size – in comparison an *E.coli* bacteria is approximately the same size as a PlumeStop particle. The particle size and the proprietary surface chemistry allow the carbon particles to be suspended as a colloid. The material was formulated to not only flow as a colloidal liquid without fracturing (i.e., through well networks and aquifers) but also allow the PlumeStop carbon to attach to soil particles once contacted. The physical appearance of PlumeStop is similar to that of "black ink". PlumeStop begins working quickly by allowing sorption of contaminants from the dissolved phase to the thin layer of carbon resulting in rapid reductions of contaminant concentrations from groundwater. Injected under low pressure, PlumeStop is installed across the direction of movement of a CVOC groundwater plume. The PlumeStop coats the aquifer in a thin layer of activated carbon. This converts the subsurface into a purifying filter, which rapidly removes CVOC from the groundwater through sorption. This stops the further migration of the contamination and eliminates the risk to downgradient receptors.

PlumeStop is a colloidal form of activated carbon with a surface treatment which reduces its interactions with the soil matrix. This allows it to move through soil pores leaving a coating on the soil matrix as it distributes from the Injection Point (IP). This provides a very large sorption surface, which will result in immediate reduction of these contaminants while concentrating contaminants to allow for more efficient and controlled remediation through destructive technologies like S-MicroZVI and AquiFix.

Sulifidated Micron Zero-Valent Iron®

S-MicroZVI is an ISCR reagent that promotes the destruction of many organic pollutants. It is engineered to provide an optimal source of micro-scale zero valent iron that is both easy to use and delivers enhanced reactivity with the target contaminants via multiple pathways. S-MicroZVI can destroy many chlorinated contaminants through a direct chemical reaction (Figure 2). S-MicroZVI will also stimulate anaerobic biological degradation by rapidly creating a reducing environment that is favorable for reductive dechlorination. S-MicroZVI is composed of colloidal, sulfidated zero-valent iron particles suspended in glycerol using proprietary environmentally acceptable dispersants. The passivation technique of sulfidation, completed using proprietary processing methods, provides

unparalleled reactivity with chlorinated hydrocarbons like PCE and TCE and increases its stability and longevity by minimizing undesirable side reactions.

S-MicroZVI is a concentrated suspension of sulfidated, colloidal zero-valent iron, designed for enhanced, long-lasting reactivity and ease of application relative to other forms of ZVI. When applied to the subsurface it imparts an ISCR mechanism that allows for the direct destruction of chlorinated ethenes (i.e. TCE) via abiotic degradation pathways, which minimizes the formation of daughter products such as vinyl chloride. Sulfidation of the ZVI surface significantly decreases the reaction that occurs between water and the ZVI particles, allowing the reagent to be more effective for the chemical reduction of chlorinated ethenes. In addition, the inclusion of S-MicroZVI can enhance the biological degradation of contaminants by creating and sustaining a reduced environment for the dechlorinating bacteria.

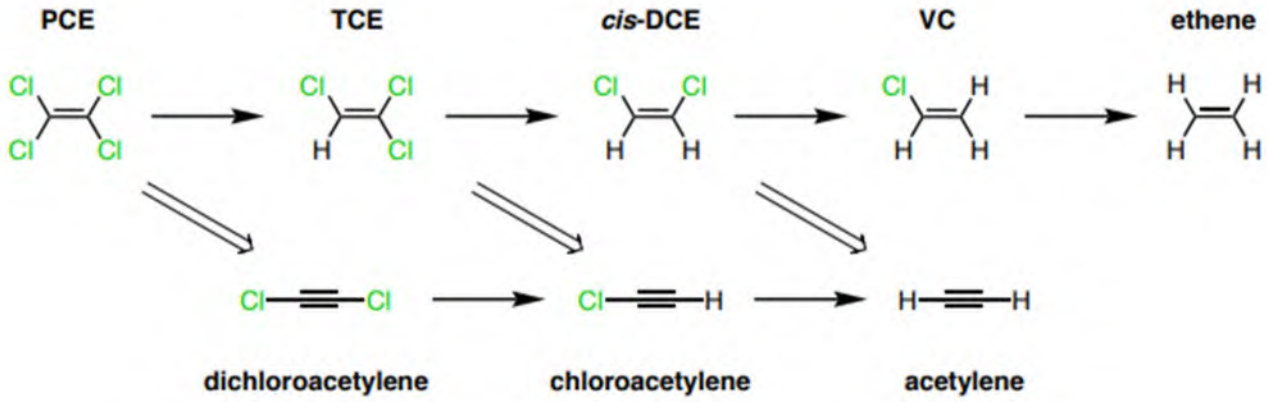


Figure 1: *CVOC break down via S-MicroZVI*

AquiFix Long-Lasting Colloidal Electron Donor®

AquiFix is an innovative electron donor designed to be compatible and co-injectable with PlumeStop. It is formulated with both fast-acting and long-lasting, slow-releasing electron donor materials to drive the biodegradation of chlorinated solvents in groundwater. This formulation includes a solid-phase source of fatty acids and beneficial nutrients to support the dechlorinating microbial population. AquiFix is an organic remediation amendment engineered to promote in-situ anaerobic biodegradation of toxic groundwater contaminants. It contains an engineered mixture of fast- and slow-release organic compounds. The slow-release component consists of fine, solid-phase, plant-based particles (<0.5 µm) suspended in water using polymer dispersion chemistry, while the rapid-release organic compound is dissolved within the aqueous matrix.

Once applied to the subsurface, AquiFix binds to the soil matrix, and the soluble organic donor quickly establishes reducing conditions. The solid-phase component slowly degrades to produce volatile fatty acids and molecular hydrogen, sustaining long-term anaerobic bioremediation. AquiFix provides a controlled release of hydrogen for an extended period of time to stimulate anaerobic bioremediation.

Bio-Dechlor Inoculum Plus®

BDI Plus is an enriched natural consortium containing species of Dehalococcoides sp. (DHC). BDI PLUS has been shown to stimulate the rapid and complete dechlorination of chlorinated solvents

such as tetrachloroethene (PCE), trichloroethene (TCE), dichloroethene (DCE) and vinyl chloride (VC) to non-toxic end products, ethene, carbon dioxide and water. The culture also contains microbes capable of dehalogenating halomethanes (e.g., carbon tetrachloride and chloroform) and haloethanes (e.g., 1,1,1-TCA and 1,1-DCA) as well as mixtures of these contaminants.

BDI Plus is added to bioaugment the site with a live microbial culture that is known to fully degrade these compounds. As contaminants are degraded to non-toxic and non-sorptive end products, the PlumeStop sorption surface will be regenerated. This allows for further sorption and treatment of contaminants, which may diffuse back into the groundwater from the soil matrix over time.

Together, these technologies will foster rapid concentration reductions and provide long-term treatment of the target compounds through sorption plus abiotic and biological destructive pathways, while minimizing the potential for daughter product formation.

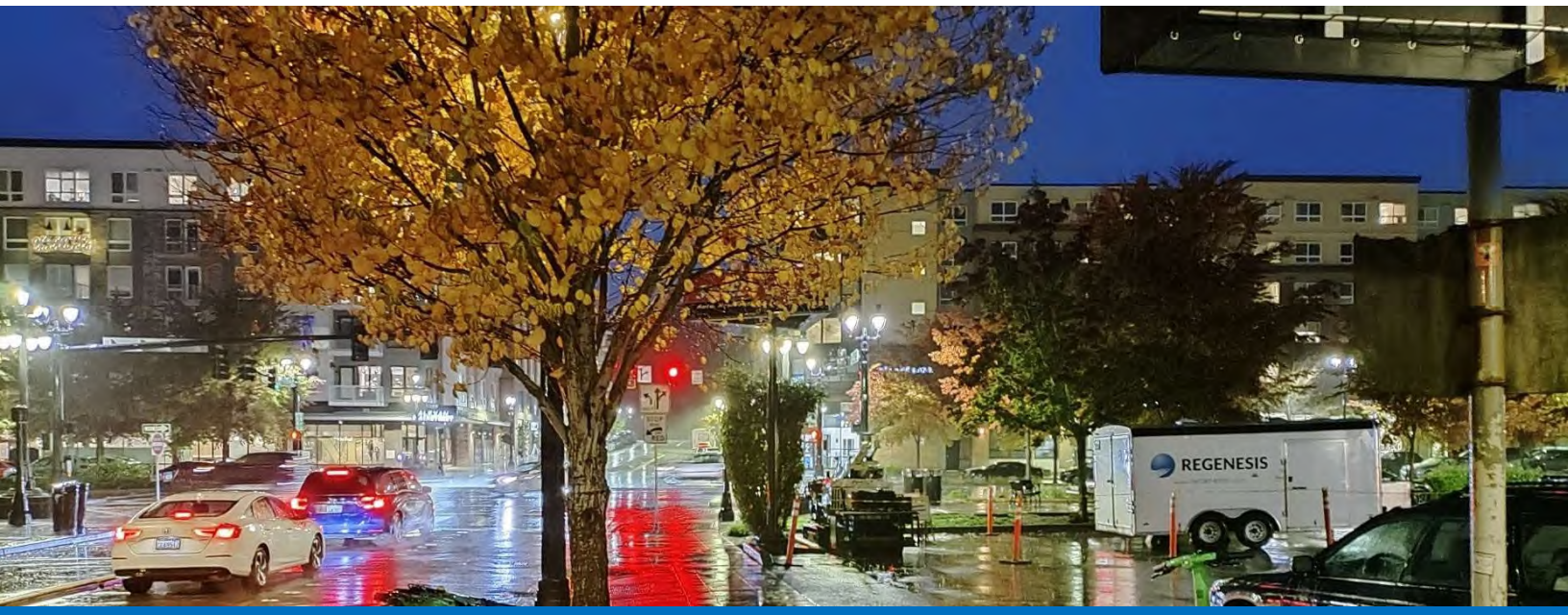
PLUME STOP® Liquid Activated Carbon

PLUS BDI® BIO-DECHLOR INOCULUM

S-Micro® ZVI Sulfidated Zero-Valent Iron

AquiFIX™

More information regarding these REGENESIS remediation products at www.REGENESIS.COM



Application Design

Application Design Details

The application design for the Ultra Care Custom Cleaners site included five (5) PABs and three (3) ISTZs, totaling seven (7) distinct injection areas. Each area was assigned a tailored dosage based on its unique requirements, including total volume, remedial fluid amounts, and TTZs. The five PABs consist of one-hundred and fifty-two (152) total IPs and the ISTZs consists of fourteen (14) total IPs for a total of one-hundred and sixty-six (166) total IPs. Although TTZs varied among areas, the recommended amount of mixed remedial fluid was prescribed to thirty-five (35) Gallons Per Foot (GPF) for the PABs and forty-five (45) GPF for the ISTZs.

The total amount of remediation fluid designed for installation across the seven areas is as follows:

PRODUCT	TOTAL	PABs	ISTZs
PlumeStop	52,000 lbs.	52,000 lbs.	0 lbs.
S-MicroZVI	13,000 lbs.	10,500 lbs.	2,500 lbs.
AquiFix	16,400 lbs.	10,000 lbs.	6,400 lbs.
BDI Plus	85.0 Liters	67.0 Liters	18.0 Liters

Details for each **PAB** design specifications are as follows:

Permeable Adsorptive Barriers Application Design Details

Permeable Adsorptive Barrier #1

Length: 80 ft.
IPs: 25
TTZ: 9 to 22 ft. below ground surface (bgs) = 13 ft thick TTZ
Volume per point: 455 Gallons
Gallons per foot: 35 Gallons
Total amount of volume: 11,375 Gallons

PRODUCT	PAB #1 TOTAL
PlumeStop	6,000 lbs.
S-MicroZVI	800 lbs.
AquiFix	0 lbs.
BDI Plus	8.0 Liters

Permeable Adsorptive Barrier #2

Length: 130 ft.
IPs: 40
TTZ: 7 to 27 ft. bgs = 20 ft thick TTZ
Volume per point: 700 Gallons
Gallons per foot: 35 Gallons
Total amount of volume: 28,000 Gallons

PRODUCT	PAB #2 TOTAL
PlumeStop	12,000 lbs.
S-MicroZVI	0 lbs.
AquiFix	3,600 lbs.
BDI Plus	18.0 Liters

Permeable Adsorptive Barrier #3

Length: 80 ft.
IPs: 25
TTZ: 7 to 30 ft. bgs = 23 ft thick TTZ
Volume per point: 805 Gallons
Gallons per foot: 35 Gallons
Total amount of volume: 20,125 Gallons

PRODUCT	PAB #3 TOTAL
PlumeStop	11,600 lbs.
S-MicroZVI	3,100 lbs.
AquiFix	3,100 lbs.
BDI Plus	13.0 Liters

Permeable Adsorptive Barrier #4

Length: 100 ft.
IPs: 31
TTZ: 15 to 35 ft. bgs = 20 ft thick TTZ
Volume per point: 700 Gallons
Gallons per foot: 35 Gallons
Total amount of volume: 21,700 Gallons

PRODUCT	PAB #4 TOTAL
PlumeStop	12,400 lbs.
S-MicroZVI	3,300 lbs.
AquiFix	3,300 lbs.
BDI Plus	14.0 Liters

Permeable Adsorptive Barrier #5

Length: 100 ft.
IPs: 31
TTZ: 31 to 51 ft. bgs = 20 ft thick TTZ
Volume per point: 700 Gallons
Gallons per foot: 35 Gallons
Total amount of volume: 21,700 Gallons

PRODUCT	PAB #5 TOTAL
PlumeStop	10,000 lbs.
S-MicroZVI	3,300 lbs.
AquiFix	0 lbs.
BDI Plus	14.0 Liters

*For a detailed summary of the design outputs, please refer to **Tables: 1** through **5***



DETAILED PAB DESIGN TABLES

PlumeStop®, S-MZVI & BDI Plus Application Design Summary		
Barrier 1		
Treatment Unit		**Technical Notes**
Treatment Type	**Barrier**	**PlumeStop and SMZVI are to be mixed in the same batch tank and co-injected. BDI is to be slip stream injected along with PlumeStop and SMZVI using compressed nitrogen.**
Distance Perpendicular to Flow (ft)	80	
Spacing Within Rows (ft)	6.50	
Number of Rows	2	
DPT Injection Points	**25**	
Top Application Depth (ft bgs)	9	**Field Mixing Ratios**
Bottom Application Depth (ft bgs)	22	PlumeStop Concentrate per Pt (gals)
PlumeStop to be Applied (lbs)	**6,000**	923
PlumeStop to be Applied (gals)	666	Mix Water per Pt (gals)
Volume Water (gals)	**10,656**	1639
S-MZVI to be Applied (lbs)	**800**	S-MZVI Volume per Pt (gals)
S-MZVI Volume (gals)	53	2
BDI Plus to be Applied (L)	**8**	Volume per pt (gals)
Total Application Volume (gals)	**11,375**	455
Prepared by: Chris Lee - Sr. Design Specialist Date: 5/6/2025		Volume per vertical ft (gals) 35

Table 1: *Permeable Adsorptive Barrier #1 Design Specifications*

PlumeStop®, AquiFix & BDI Plus Application Design Summary		
Barrier 2		
Treatment Unit		**Technical Notes**
Treatment Type	**Barrier**	**PlumeStop and AquiFix are to be mixed in the same batch tank and co-injected. BDI is to be slip stream injected along with PlumeStop and AquiFix using compressed nitrogen.**
Distance Perpendicular to Flow (ft)	130	
Spacing Within Rows (ft)	6.50	
Number of Rows	2	
DPT Injection Points	**40**	
Top Application Depth (ft bgs)	7	**Field Mixing Ratios**
Bottom Application Depth (ft bgs)	27	PlumeStop Concentrate per Pt (gals)
PlumeStop to be Applied (lbs)	**12,000**	1846
PlumeStop to be Applied (gals)	1,332	Mix Water per Pt (gals)
Volume Water (gals)	**26,236**	4036
AquiFix to be Applied (lbs)	**3,600**	AquiFix Volume per Pt (gals)
AquiFix Volume (gals)	432	11
BDI Plus to be Applied (L)	**18**	Volume per pt (gals)
Total Application Volume (gals)	**28,000**	700
Prepared by: Chris Lee - Sr. Design Specialist Date: 5/6/2025		Volume per vertical ft (gals) 35

Table 2: *Permeable Adsorptive Barrier #2 Design Specifications*

PlumeStop®, AquiFix, S-MZVI & BDI Plus Application Design Summary *Barrier 3*		
Treatment Unit		**Technical Notes**
Treatment Type	**Barrier**	**PlumeStop, AquiFix and SMZVI are to be mixed in the same batch tank and co-applied. BDI is to be slip stream injected along with the PlumeStop, AquiFix and SMZVI using compressed nitrogen.**
Distance Perpendicular to Flow (ft)	80	
Spacing Within Rows (ft)	6.50	
Number of Rows	2	
DPT Injection Points	**25**	
Top Application Depth (ft bgs)	7	**Field Mixing Ratios**
Bottom Application Depth (ft bgs)	30	PlumeStop Concentrate per Pt (gals)
PlumeStop to be Applied (lbs)	**11,600**	51
PlumeStop to be Applied (gals)	1,287	Mix Water per Pt (gals)
Volume Water (gals)	**18,261**	730
S-MZVI to be Applied (lbs)	**3,100**	S-MZVI Volume per Pt (gals)
S-MZVI Volume (gals)	205	8
AquiFix to be Applied (lbs)	**3,100**	Volume per pt (gals)
AquiFix Volume (gals)	372	15
BDI Plus to be Applied (L)	**13**	Volume per pt (gals)
Total Application Volume (gals)	**20,125**	805
Prepared by: Chris Lee - Sr. Design Specialist **Date:** 5/19/2023		Volume per vertical ft (gals) 35

Table 3: *Permeable Adsorptive Barrier #3 Design Specifications*

PlumeStop®, AquiFix, SMZVI & BDI Plus Application Design Summary *Barrier 4*		
Treatment Unit		**Technical Notes**
Treatment Type	**Barrier**	**PlumeStop, AquiFix and SMZVI are to be mixed in the same batch tank and co-injected. BDI is to be slip stream injected along with PlumeStop and SMZVI using compressed nitrogen.**
Distance Perpendicular to Flow (ft)	100	
Spacing Within Rows (ft)	6.50	
Number of Rows	2	
DPT Injection Points	**31**	
Top Application Depth (ft bgs)	15	**Field Mixing Ratios**
Bottom Application Depth (ft bgs)	35	PlumeStop Concentrate per Pt (gals)
PlumeStop to be Applied (lbs)	**12,400**	1908
PlumeStop to be Applied (gals)	1,376	Mix Water per Pt (gals)
Volume Water (gals)	**19,710**	3032
S-MZVI to be Applied (lbs)	**3,300**	S-MZVI Volume per Pt (gals)
S-MZVI Volume (gals)	219	7
AquiFix to be Applied (lbs)	**3,300**	AquiFix Volume per Pt (gals)
AquiFix Volume (gals)	396	13
BDI Plus to be Applied (L)	**14**	Volume per pt (gals)
Total Application Volume (gals)	**21,700**	700
Prepared by: Chris Lee - Sr. Design Specialist **Date:** 5/6/2025		Volume per vertical ft (gals) 35

Table 4: *Permeable Adsorptive Barrier #4 Design Specifications*

PlumeStop®, S-MZVI & BDI Plus Application Design Summary *Barrier 5*		
Treatment Unit		**Technical Notes**
Treatment Type	**Barrier**	**PlumeStop and SMZVI are to be mixed in the same batch tank and co-injected. BDI is to be slip stream injected along with PlumeStop and SMZVI using compressed nitrogen.**
Distance Perpendicular to Flow (ft)	100	
Spacing Within Rows (ft)	6.50	
Number of Rows	2	
DPT Injection Points	**31**	
Top Application Depth (ft bgs)	31	**Field Mixing Ratios**
Bottom Application Depth (ft bgs)	51	PlumeStop Concentrate per Pt (gals)
PlumeStop to be Applied (lbs)	**10,000**	1538
PlumeStop to be Applied (gals)	1,110	Mix Water per Pt (gals)
Volume Water (gals)	**20,372**	3134
S-MZVI to be Applied (lbs)	**3,300**	S-MZVI Volume per Pt (gals)
S-MZVI Volume (gals)	219	7
BDI Plus to be Applied (L)	**14**	Volume per pt (gals)
Total Application Volume (gals)	**21,700**	700
Prepared by: Chris Lee - Sr. Design Specialist **Date:** 5/6/2025		Volume per vertical ft (gals) 35

Table 5: *Permeable Adsorptive Barrier #5 Design Specifications*



In-Situ Treatment Zones Application Design Details

Details for each **ISTZ** design specifications are as follows:

In-Situ Treatment Zone #1

Length: 40 ft.
IPs: 4
TTZ: 7 to 18 ft. bgs = 11 ft thick TTZ
Volume per point: 495 Gallons
Gallons per foot: 45 Gallons
Total amount of volume: 1,980 Gallons

PRODUCT	ISTZ #1 TOTAL
PlumeStop	0 lbs.
S-MicroZVI	500 lbs.
AquiFix	1,200 lbs.
BDI Plus	4.0 Liters

In-Situ Treatment Zone #2

Length: 40 ft.
IPs: 4
TTZ: 6 to 18 ft. bgs = 12 ft thick TTZ
Volume per point: 540 Gallons
Gallons per foot: 45 Gallons
Total amount of volume: 2,160 Gallons

PRODUCT	ISTZ #2 TOTAL
PlumeStop	0 lbs.
S-MicroZVI	500 lbs.
AquiFix	1,200 lbs.
BDI Plus	5.0 Liters

In-Situ Treatment Zone #3

Length: 60 ft.
IPs: 6
TTZ: 20 to 40 ft. bgs = 20 ft thick TTZ
Volume per point: 900 Gallons
Gallons per foot: 45 Gallons
Total amount of volume: 5,400 Gallons

PRODUCT	ISTZ #3 TOTAL
PlumeStop	0 lbs.
S-MicroZVI	1,500 lbs.
AquiFix	4,000 lbs.
BDI Plus	9.0 Liters

*For a detailed summary of the design outputs, please refer to **Tables: 6** through **9***



DETAILED ISTZ DESIGN TABLES

AquiFix®, S-MZVI®, BDI® Plus Application Design Summary		
TZ1		
Treatment Unit		
Treatment Type	**Barrier**	**AquiFix and SMZVI are to be combined in the same batch tank and co-injected. BDI Plus is to be slip stream injected into each interval using compressed nitrogen.**
Distance Perpendicular to Flow (ft)	40	
Spacing Within Rows (ft)	10	
Number of Rows	1	
DPT Injection Points	4	
Top Application Depth (ft bgs)	7	**Field Mixing Ratios**
Bottom Application Depth (ft bgs)	18	AquiFix Concentrate per Pt (gals)
AquiFix to be Applied (lbs)	**1,200**	36
AquiFix to be Applied (gals)	144	Mix Water per Pt (gals)
AquiFix Mix %	7.39%	451
Volume Water (gals)	**1,803**	AquiFix Mix Volume per Pt (gals)
AquiFix Mix Volume (gals)	1,947	487
S-MZVI to be Applied (lbs)	**500**	S-MZVI Volume per Pt (gals)
S-MZVI Volume (gals)	33	8
BDI Plus to be Applied (L)	**4**	BDI Volume per Pt (L)
BDI Plus Mix Water Volume (gals)		1.0
Total Application Volume (gals)	**1,980**	Volume per pt (gals)
		495
Prepared by: Chris Lee - Sr. Design		Volume per vertical ft (gals)
Date: 5/6/2025		45

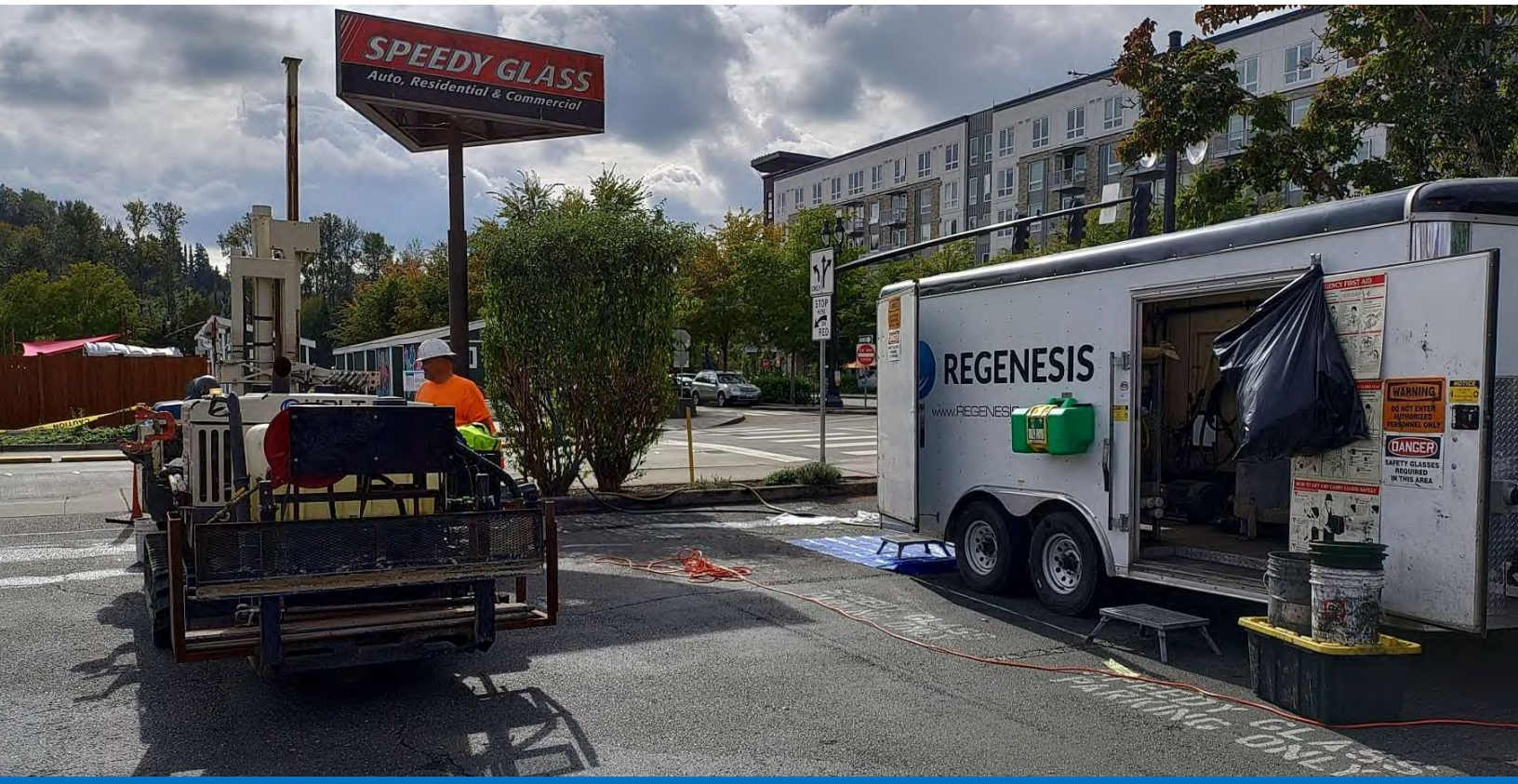
Table 6: *In-Situ Treatment Zone #1 Design Specifications*

AquiFix®, S-MZVI®, BDI® Plus Application Design Summary		
TZ2		
Treatment Unit		
Treatment Type	**Barrier**	**AquiFix and SMZVI are to be combined in the same batch tank and co-injected. BDI Plus is to be slip stream injected into each interval using compressed nitrogen.**
Distance Perpendicular to Flow (ft)	40	
Spacing Within Rows (ft)	10	
Number of Rows	1	
DPT Injection Points	4	
Top Application Depth (ft bgs)	6	**Field Mixing Ratios**
Bottom Application Depth (ft bgs)	18	AquiFix Concentrate per Pt (gals)
AquiFix to be Applied (lbs)	**1,200**	36
AquiFix to be Applied (gals)	144	Mix Water per Pt (gals)
AquiFix Mix %	6.76%	496
Volume Water (gals)	**1,983**	AquiFix Mix Volume per Pt (gals)
AquiFix Mix Volume (gals)	2,127	532
S-MZVI to be Applied (lbs)	**500**	S-MZVI Volume per Pt (gals)
S-MZVI Volume (gals)	33	8
BDI Plus to be Applied (L)	**5**	BDI Volume per Pt (L)
BDI Plus Mix Water Volume (gals)		1.3
Total Application Volume (gals)	**2,160**	Volume per pt (gals)
		540
Prepared by: Chris Lee - Sr. Design		Volume per vertical ft (gals)
Date: 5/6/2025		45

Table 7: *In-Situ Treatment Zone #2 Design Specifications*

AquiFix®, S-MZVI®, BDI® Plus Application Design Summary		
TZ3		
Treatment Unit		
Treatment Type	**Barrier**	**AquiFix and SMZVI are to be combined in the same batch tank and co-injected. BDI Plus is to be slip stream injected into each interval using compressed nitrogen.**
Distance Perpendicular to Flow (ft)	60	
Spacing Within Rows (ft)	10	
Number of Rows	1	
DPT Injection Points	6	
Top Application Depth (ft bgs)	20	**Field Mixing Ratios**
Bottom Application Depth (ft bgs)	40	AquiFix Concentrate per Pt (gals)
AquiFix to be Applied (lbs)	**4,000**	80
AquiFix to be Applied (gals)	479	Mix Water per Pt (gals)
AquiFix Mix %	9.04%	804
Volume Water (gals)	**4,821**	AquiFix Mix Volume per Pt (gals)
AquiFix Mix Volume (gals)	5,301	883
S-MZVI to be Applied (lbs)	**1,500**	S-MZVI Volume per Pt (gals)
S-MZVI Volume (gals)	99	17
BDI Plus to be Applied (L)	**9**	BDI Volume per Pt (L)
BDI Plus Mix Water Volume (gals)		1.5
Total Application Volume (gals)	**5,400**	Volume per pt (gals)
		900
Prepared by: Chris Lee - Sr. Design		Volume per vertical ft (gals)
Date: 5/6/2025		45

Table 8: *In-Situ Treatment Zone #3 Design Specifications*



On-Site Application

Jobsite Inspection

RRS mobilized to site on Wednesday, September 24th, 2025, and temporarily staged the injection equipment until injections begun. The following day, Thursday, September 25th, 2025, RRS personnel met with representatives from Holt Services Inc, Floyd Snider and the City of Bothell on-site and conducted a comprehensive site inspection. The site inspection covered key elements such as injection point locations, fire hydrant access, marked utilities familiarization, potential traffic concerns, and other safety hazards. A collaborative discussion was held with all stakeholders to review the planned work to ensure transparency and coordination throughout the project. All product containers were delivered, offloaded and staged in a secured, temporary project lay-down yard.

Before injections began, RRS conducted a health and safety tailgate meeting with all on-site personnel. A jobsite safety inspection was completed and documented, identifying potential hazards such as slips, trips, and falls from injection hoses on the ground, as well as vehicle traffic, contamination hazards, etc.... Upon new personnel arriving on-site, a new safety tailgate was conducted to ensure everyone on-site was familiar with the health and safety plan. Once safety protocols were confirmed, the injection trailer was prepared for product transfer and mixing.

Injection Sequence

RRS applied the Regenesis technologies by mixing the products in the RRS injection trailer and injecting through 1.5-inch DPT injection tool string fitted for 0.75-inch diameter injection hosing, as shown on **Figure 2**. The injection trailer is fully enclosed and contains mixing tanks, pumps, and delivery system equipped for direct connection to the injection wells. The application pump is a multiple diaphragm positive displacement pump designed to prevent pulsation of the remediation products while being applied. The application pump can deliver the remediation products at up to 250 pounds per square inch (PSI) and 20 gallons per minute (GPM).

Safety bypass mechanisms are installed to release back pressure buildup in the event injection pressures exceed commonly accepted application ranges. RRS delivered the remediation products at up to four (4) separate delivery lines simultaneously, each having the capability of monitoring injection pressures and injection flowrates/totals at any given time. Each delivery line can reach beyond the injection trailer at least 100 linear feet, limiting the need to move the injection trailer from point to point or in this case limiting the need to move the trailer several times each day. Additional line extensions were utilized when necessary to increase the trailer range without being moved.

The remedial solution was prepared in two (2) 350-gallon conical tanks that are configured with chemically resistant materials. Mixing water was provided by an on-site property fire hydrant and fitted for a 1.5-MNHT output as a direct source to the RRS injection trailer. Once water was filled to the appropriate volume per the design concentration, each product was transferred from their respective container via an air-driven diaphragm pump. Product containers were measured and marked to track volumetric batch amounts to ensure accurate product dosing.

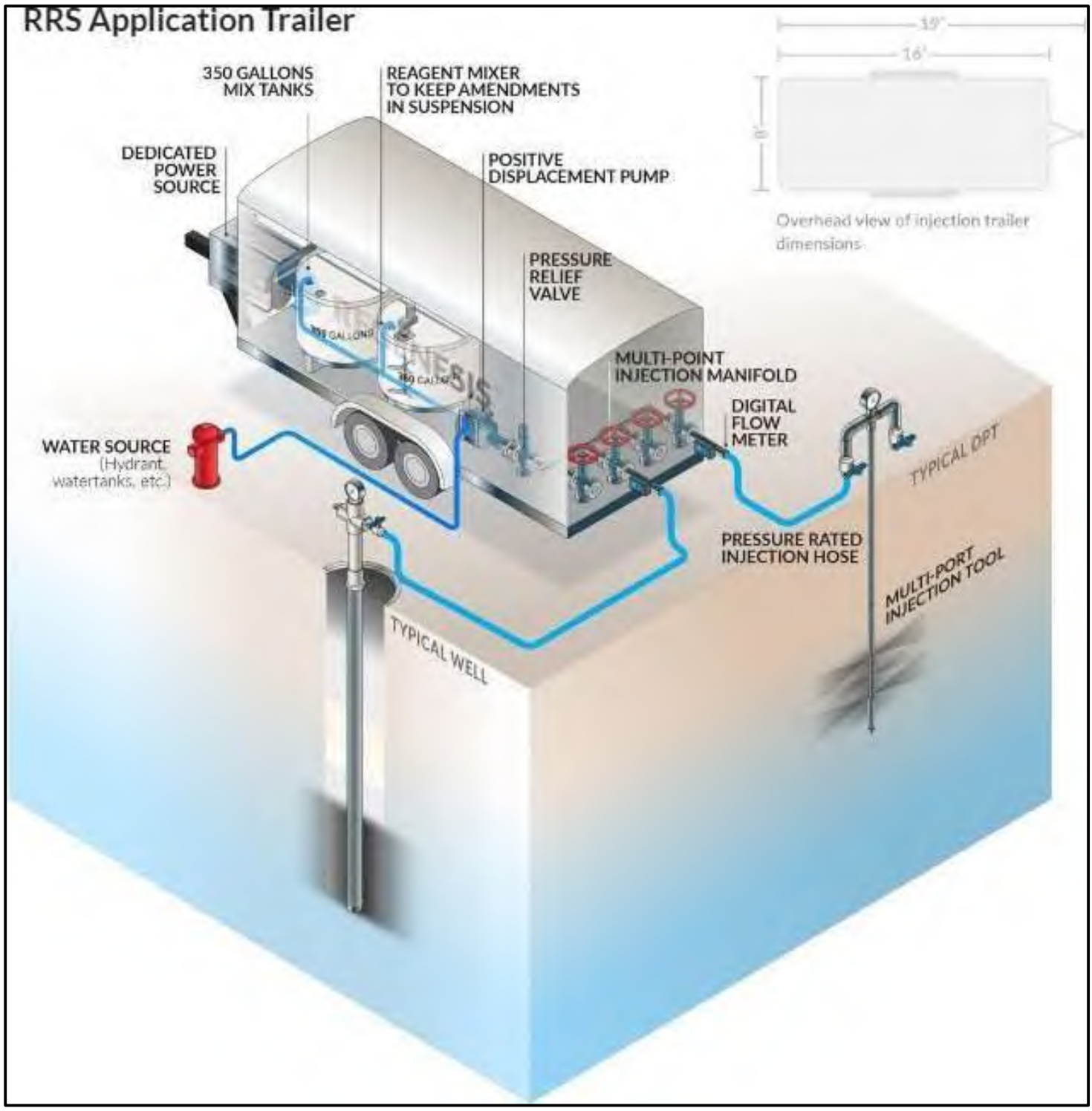


Figure 2: *Diagram view of the RRS remediation injection platform*

Injection Activities Review

The first barrier attempted to be installed was Barrier #5 **(Appendix D: PHOTOS 1 & 2)**. The first few days of injections primarily consisted of preliminary design verification testing to allow RRS personnel to confirm expected results from the Placement Validation Plan (PVP). The PVP plan was specifically developed to evaluate whether the designed injection point spacing and injection volumes could achieve an effective overlap of product between adjacent IPs. Pre-injection soil cores were collected to familiarize on-site personnel with the site's local lithology and to also insert temporary piezometers within the resulting void spaces.

Early injections indicated favourable subsurface conditions including DPT acceptance, optimal injection pressures and flowrates, and an expected radius of influence (ROI) for effective distribution. During injections, RRS monitored the arrival of remediation fluid in temporary piezometers and nearby monitoring wells, conducting visual concentration tests, depth to water changes and YSI readings on the observed fluid to confirm proper distribution within the treatment zones. By incorporating the placement validation plan, REGENESIS was confident that the expected ROI of remedial fluid had been achieved. Injections then continued with up to four (4) active IPs at one time utilizing a 2-ft bottom-up retractable screen (shown below).



(1) 2-ft Bottom-Up Retractable Screen
Figure 3: *(2) 1-ft Top-Down Pressure Activated Probe*
(3) 2-ft Top-Down Internal Screen

Throughout injections within Barrier #5 a localized issue emerged with periodic surfacing events of remediation fluid in a low-lying section of the gravel lot. Isolated IPs experienced surfacing as far as fifty-three feet (53') or thirty feet (30') away from a lone active point. Different injection approaches were employed by RRS personnel by attempting IPs with a 1-ft top-down pressure activated probe (shown above) which produced varied results. A 2-ft top-down internal screen (shown above) was then utilized, which produced improved results but did not eliminate surfacing issues. Discussions between all project stakeholders lead to a reduction in water volume used to mix the REGENESIS remedial fluid and ultimately lower the GPF from 35 to 25. Ultimately, the flexibility to change injection screen types and volume reductions as site conditions changed ensured a successful in-situ installation by RRS personnel.

Injections continued with periodic transitions between treatment area installs. However, efforts were made with each new initial injection area to maintain the original design specifications of mix water used for the remedial fluid mixing. Upon unmanageable complications from surfacing issues across multiple locations, a gradual reduction in GPF was implemented from 35 to 15 GPF within the PABs and 45 to 35 within the ISTZ. These adjustments were not applied uniformly across all injection areas. Instead, changes were implemented in 5 or 10-gallon increments, as needed following consultation between the REGENESIS Design personnel and Floyd Snider personnel.

*Please see **Appendix B: Injection Logs** for a detailed description of injection specifics*

Injection Details

Permeable Adsorptive Barrier #1

Application Method: DPT using 2-ft retractable screens and 2-ft exposed port screens
Injection Depth: 9 - 22 ft. bgs.
Total Number of Injection Locations: 25
Total Amount of PlumeStop Applied: 6,000 lbs.
Total Amount of S-MicroZVI Applied: 800 lbs.
Total Amount of AquiFix Applied: 0 lbs.
Total Amount of BDI Plus Applied: 8.0 Liters
Total Volume Applied: 11,375 Gallons

Minimum Injection Pressure (PSI)	Maximum Injection Pressure (PSI)	Average Injection Pressure (PSI)	Minimum Flowrate (GPM)	Maximum Flowrate (GPM)	Average Flowrate (GPM)
2.5	202.0	21.2	0.3	3.5	2.9

***Table 9:** Injection point pressure and flowrate data for injections within PAB #1*

Deviations from the Design:

- Barrier line was slightly adjusted so GeoProbe could access all IPs evenly.

*For a detailed injection log of the remediation application, please see **Appendix B; Table 1***

Permeable Adsorptive Barrier #2

Application Method: DPT using 2-ft retractable screens and 2-ft exposed port screens
Injection Depth: 7 - 27 ft. bgs.
Total Number of Injection Locations: 40
Total Amount of PlumeStop Applied: 12,000 lbs.
Total Amount of S-MicroZVI Applied: 0 lbs.
Total Amount of AquiFix Applied: 3,600 lbs.
Total Amount of BDI Plus Applied: 18.0 Liters
Total Volume Applied: 17,870 Gallons

Minimum Injection Pressure (PSI)	Maximum Injection Pressure (PSI)	Average Injection Pressure (PSI)	Minimum Flowrate (GPM)	Maximum Flowrate (GPM)	Average Flowrate (GPM)
1.0	132.2	18.8	0.3	3.5	2.3

Table 10: *Injection point pressure and flowrate data for injections within PAB #2*

Deviations from Proposal:

- Barrier line was slightly adjusted to accommodate for an active sewer utility line
- Due to active utility corridors, the decision was made with Floyd Snider personnel to condense four (4) IPs together with an adjacent IP since the designed point spacing could not be achieved. Each condensed IP received double the amount of remediation product without additional water.
- Barrier #2 saw a gradual reduction from 700 gallons per point (GPP) to 300 GPP on some IPs.

For a detailed injection log of the remediation application, please see ***Appendix B; Table 2***

Permeable Adsorptive Barrier #3

Application Method: DPT using 2-ft retractable screens and 2-ft exposed port screens
Injection Depth: 7 - 30ft. bgs.
Total Number of Injection Locations: 25
Total Amount of PlumeStop Applied: 11,600 lbs.
Total Amount of S-MicroZVI Applied: 3,100 lbs.
Total Amount of AquiFix Applied: 3,100 lbs.
Total Amount of BDI Plus Applied: 13.0 Liters
Total Volume Applied: 14,375 Gallons

Minimum Injection Pressure (PSI)	Maximum Injection Pressure (PSI)	Average Injection Pressure (PSI)	Minimum Flowrate (GPM)	Maximum Flowrate (GPM)	Average Flowrate (GPM)
1.4	74.4	17.2	0.7	5.5	3.3

Table 11: *Injection point pressure and flowrate data for injections within PAB #3*

Deviations from Proposal:

- Barrier #3 was reduced from 805 GPP to 575 GPP for the entire barrier.

For a detailed injection log of the remediation application, please see ***Appendix B; Table 3***



Permeable Adsorptive Barrier #4

Application Method: DPT using 2-ft retractable screens and 2-ft exposed port screens
Injection Depth: 15 - 35ft. bgs.
Total Number of Injection Locations: 31
Total Amount of PlumeStop Applied: 10,000 lbs.
Total Amount of S-MicroZVI Applied: 3,300 lbs.
Total Amount of AquiFix Applied: 0 lbs.
Total Amount of BDI Plus Applied: 14.0 Liters
Total Volume Applied: 17,341 Gallons

Minimum Injection Pressure (PSI)	Maximum Injection Pressure (PSI)	Average Injection Pressure (PSI)	Minimum Flowrate (GPM)	Maximum Flowrate (GPM)	Average Flowrate (GPM)
2.4	175.0	27.7	0	4	2.6

Table 12: *Injection point pressure and flowrate data for injections within PAB #4*

Deviations from Proposal:

- Barrier line was slightly adjusted to account for the wooden structure located within original barrier placement
- Barrier #4 was reduced from 700 GPP to 400 GPP for the entire barrier.

For a detailed injection log of the remediation application, please see ***Appendix B; Table 4***

Permeable Adsorptive Barrier #5

Application Method: DPT using 2-ft retractable screens and 2-ft exposed port screens
Injection Depth: 31 - 51ft. bgs.
Total Number of Injection Locations: 31
Total Amount of PlumeStop Applied: 12,400 lbs.
Total Amount of S-MicroZVI Applied: 3,300 lbs.
Total Amount of AquiFix Applied: 3,300 lbs.
Total Amount of BDI Plus Applied: 14.0 Liters
Total Volume Applied: 17,341 Gallons

Minimum Injection Pressure (PSI)	Maximum Injection Pressure (PSI)	Average Injection Pressure (PSI)	Minimum Flowrate (GPM)	Maximum Flowrate (GPM)	Average Flowrate (GPM)
1.4	74.4	17.2	0.7	5.5	3.4

Table 13: *Injection point pressure and flowrate data for injections within PAB #5*

Deviations from Proposal:

- Barrier #5 saw a gradual reduction from 700 GPP to 500 GPP for the entire barrier.

For a detailed injection log of the remediation application, please see ***Appendix B; Table 5***

In-Situ Treatment Zone #1

Application Method: DPT using 2-ft retractable screens
Injection Depth: 7- 18 ft. bgs.
Total Number of Injection Locations: 4
Total Amount of PlumeStop Applied: 0 lbs.
Total Amount of S-MicroZVI Applied: 500 lbs.
Total Amount of AquiFix Applied: 1,200 lbs.
Total Amount of BDI Plus Applied: 4.0 Liters
Total Volume Applied: 1,980 Gallons

Minimum Injection Pressure (PSI)	Maximum Injection Pressure (PSI)	Average Injection Pressure (PSI)	Minimum Flowrate (GPM)	Maximum Flowrate (GPM)	Average Flowrate (GPM)
0.0	63.3	13.5	0.4	2.7	2.3

Table 14: *Injection point pressure and flowrate data for injections within ISTZ #1*

Deviations from Proposal:

- N/A

For a detailed injection log of the remediation application, please see ***Appendix B; Table 6***

In-Situ Treatment Zone #2

Application Method: DPT using 2-ft retractable screens
Injection Depth: 6 - 18 ft. bgs.
Total Number of Injection Locations: 4
Total Amount of PlumeStop Applied: 0 lbs.
Total Amount of S-MicroZVI Applied: 500 lbs.
Total Amount of AquiFix Applied: 1,200 lbs.
Total Amount of BDI Plus Applied: 5.0 Liters
Total Volume Applied: 2,160 Gallons

Minimum Injection Pressure (PSI)	Maximum Injection Pressure (PSI)	Average Injection Pressure (PSI)	Minimum Flowrate (GPM)	Maximum Flowrate (GPM)	Average Flowrate (GPM)
2.3	58.4	13.3	0.6	3.0	2.6

Table 15: *Injection point pressure and flowrate data for injections within ISTZ #2*

Deviations from Proposal:

- N/A

For a detailed injection log of the remediation application, please see ***Appendix B; Table 7***

In-Situ Treatment Zone #3

Application Method: DPT using 2-ft retractable screens
Injection Depth: 20 - 40 ft. bgs.
Total Number of Injection Locations: 6
Total Amount of PlumeStop Applied: 0 lbs.
Total Amount of S-MicroZVI Applied: 1,500 lbs.
Total Amount of AquiFix Applied: 4,000 lbs.
Total Amount of BDI Plus Applied: 9.0 Liters
Total Volume Applied: 4,200 Gallons

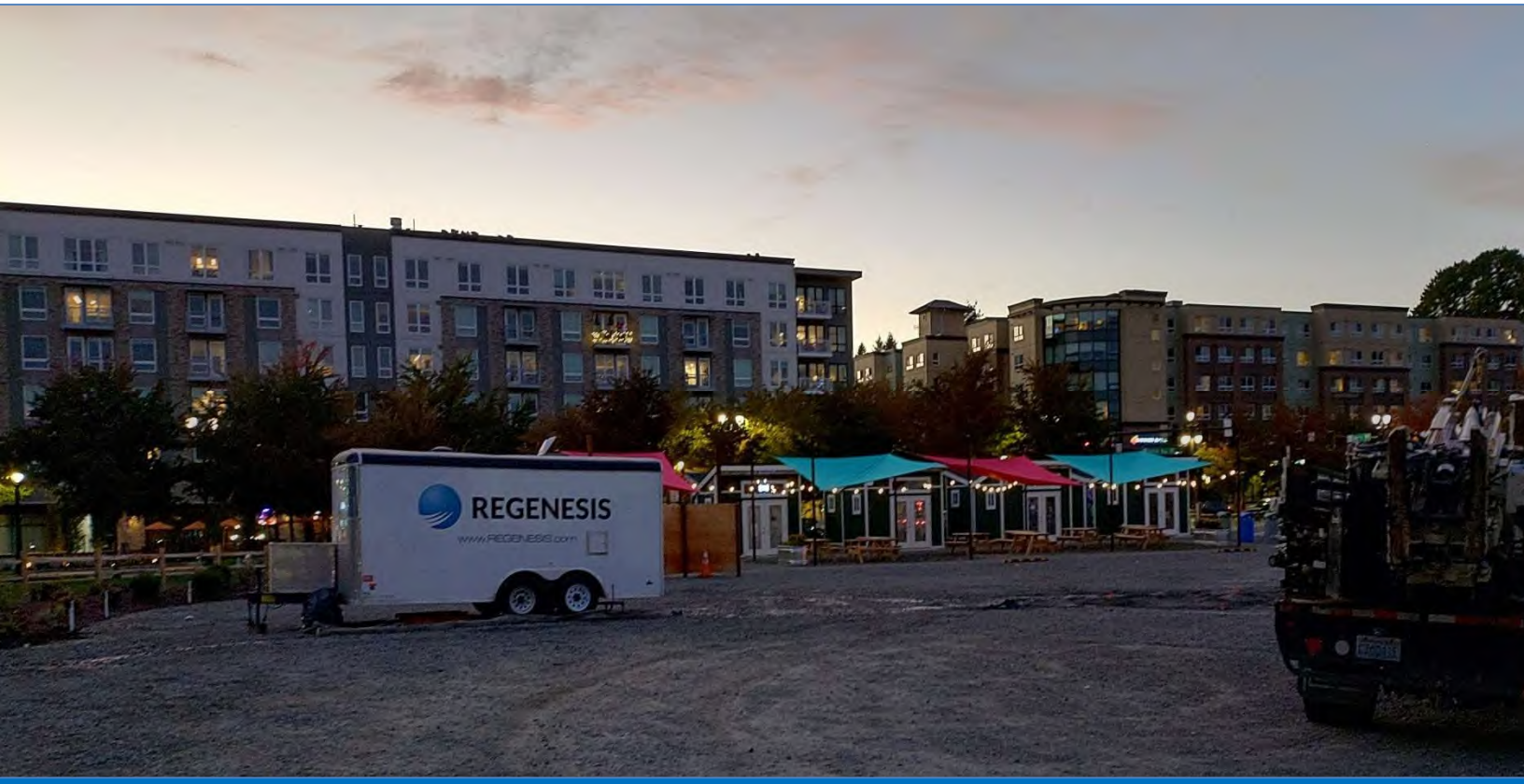
Minimum Injection Pressure (PSI)	Maximum Injection Pressure (PSI)	Average Injection Pressure (PSI)	Minimum Flowrate (GPM)	Maximum Flowrate (GPM)	Average Flowrate (GPM)
0.0	63.3	13.5	0.4	2.7	2.3

Table 16: *Injection point pressure and flowrate data for injections within ISTZ #3*

Deviations from Proposal:

- Treatment Zone #3 was reduced from 900 to 700 GPP

For a detailed injection log of the remediation application, please see ***Appendix B; Table 7***



Appendix A: Daily Project Summary Sheets

REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 9/30/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:45
			RRS Time Out 16:20

On-Site Personnel (Name and Firm)

Spencer Lindgren & Isaac Gregg (RRS)

Louie & Grady (Holt)

Kristin & Amy (Floyd Snider)

Completed Injection Points: 2 / 166

Total Percentage Complete: 1.2%

PlumeStop Total: 645 lbs.

S-MicroZVI Total: 213 lbs.

AquiFix Total: 0 lbs.

BDI Plus Total: 0.9 Liters

ON-SITE ACTIVITIES

7:45 - On-site / site setup

8:30 - Tailgate with all injection personnel on-site

9:00 - Drillers begin drilling first set of 2 IP's

9:40 - Setup peri pump & YSI

10:15 - Injections begin

2:35 - Injections on first set of 2 IP's completed / site cleanup

16:20 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-3: 700 Gallons

IP-11: 700 Gallons

Deviations From Work Plan N/A

Comments Injections worked great. IP-3 took 150 psi on the first lift to get a good flow of around 5.0 GPM. But after that is was low pressures and great flow rates

Daily Products and Amounts Used

PlumeStop: 645 lbs. / AquiFix: 0 lbs.

S-MicroZVI: 213 lbs. / BDI Plus: 0.9 Liters

Total Daily Volume Applied

1,400 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)



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REGENESIS
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DAILY PROJECT SUMMARY

Date 10/1/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 8:00
			RRS Time Out 16:30

On-Site Personnel (Name and Firm)

Spencer & Isaac (RRS)

Louie & Grady (Holt)

Ryan (Floyd Snider)

Completed Injection Points:	6 / 166
Total Percentage Complete:	3.6 %

PlumeStop Total:	1935 lbs.
S-MicroZVI Total:	638 lbs.
AquiFix Total:	0 lbs.
BDI Plus Total:	2.7 Liters

ON-SITE ACTIVITIES

8:00 - On-site / site setup

8:30 - Tailgate with all personnel on-site

9:00 - Drillers begin setting a set of four IP's in barrier 5

10:10 - Injections on the four IP's begin

15:45 - Injections complete / site cleanup

16:30 - Off-site

** Temporary piezometers removed from barrier as RRS gathered all relevant data **

Injection Points (List each injection point with total gallons applied)

IP-5-2: 700 Gallons IP-5-14: 700 Gallons

IP-5-6: 700 Gallons

IP-5-10: 700 Gallons

Deviations From Work Plan N/A

Comments Minor surfacing from 28' away from IP-5-14. Surfacing was coming from cracks in the surface. We let the subsurface settle for a bit and packed these cracks with bentonite before resuming injections and slowing the pump.

Daily Products and Amounts Used

PlumeStop: 1,354 lbs. AquiFix: 0 lbs.

S-MicroZVI: 447 lbs. BDI Plus: 1.9 Liters

Total Daily Volume Applied

2,800 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


34-D
5.14
PZ5-2
5.10
5.11
5.6
PZ5-1
5.2
5.3
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DAILY PROJECT SUMMARY

Date 10/2/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 8:00
			RRS Time Out 17:30

On-Site Personnel (Name and Firm)

Spencer, Isaac & Thomas (RRS)

Louie & Grady (Holt)

Ryne & Lydia (Floyd Snider)

Completed Injection Points:	8 / 166
Total Percentage Complete:	4.8 %

PlumeStop Total:	3,104 lbs.
S-MicroZVI Total:	1,022 lbs.
AquiFix Total:	0 lbs.
BDI Plus Total:	4.28 Liters

ON-SITE ACTIVITIES

8:00 - On-site / tailgate / site setup

8:45 - Holt begins drilling a set of four injection points

10:05 - Injections on set of four injection points begin

14:00 - Surfacing issues cause halt in production. Discussions between RRS design team and Floyd Snider for spec changes

15:00 - Decision to reduce water in mix tanks by 10 gallons per vertical foot (25 gpf)

16:50 - Injections completed on two IP's. Will attempt to complete surfacing injection points in the morning. Drillers pull IP's / site cleanup

17:05 - Drillers push 2.25" rod into IP-5-15 and pack with hydrated bentonite to swell up over night

17:30 - Off-site

** IP-5-12 has 87% total product applied & IP-5-18 has 75% total product applied **

**IP-5-15 was drilled with 2.25" rod to 15ft bgs and packed with bentonite to try injections tomorrow.

Injection Points (List each injection point with total gallons applied)

IP-5-4: 660 Gallons IP-5-18: 497 Gallons

IP-5-8: 660 Gallons

IP-5-12: 591 Gallons

Deviations From Work Plan Reduction on gallons per foot (gpf) to hopefully limit surfacing. New gpf is set to 25. Product per interval remains unchanged

Comments Injections near the sewer manhole (near MW-34D) have caused surfacing from cracks in the surface in and around the 40-ft bgs zone and above Surfacing is almost immediate when starting injections in this treatment zone. The surfaced fluid is pretty dilute compared to mix tanks, but has some PlumeStop present

Daily Products and Amounts Used

PlumeStop: 1,169 lbs. AquiFix: 0 lbs.

S-MicroZVI: 384 lbs. BDI Plus: 1.58 Liters

Total Daily Volume Applied

2,488 Gallons

Product Inventory Check Completed

Yes	✔
No	

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Client Representative (Name/Signature)



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DAILY PROJECT SUMMARY

Date 10/3/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 8:15
			RRS Time Out 18:00

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie, Grady & Mike? (Holt)

Jake and Maddy (Floyd Snider)

Completed Injection Points:	10 / 166
Total Percentage Complete:	6 %

PlumeStop Total:	4,055 lbs.
S-MicroZVI Total:	1,527 lbs.
AquiFix Total:	0 lbs.
BDI Plus Total:	5.59 Liters

ON-SITE ACTIVITIES

8:15 - RRS on-site / tailgate with all personnel on-site
9:00 - Injections resume on IP-5-12 and 5-18 / Holt begins drilling a new set of four IP's
9:45 - Injections on these two IP's completed
10:40 - Holt finished drilling new set of 4 IP's / pulling IP's 5-12 and 5-18 and packing with bentonite.
13:00 - Injections in the 41-39' zone begin and surfacing in problem area starts.
13:30 - Begin trickling product in at 1 gpm.
15:15 - Decision was made to halt injections and leave injection rods in the ground over the weekend. Will try to inject again on Monday
15:30 - Attempt to gather a soilcore near barrier to investigate / site cleanup
18:00 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-5-1: 329 Gallons
IP-5-5: 328 Gallons
IP-5-9: 318 Gallons
IP-5-15: 307 Gallons

From yesterday
IP-5-12: 69 Gallons
IP-5-18: 163 Gallons

Deviations From Work Plan N/A

Comments Still seeing surfacing up to 65ft away from an active injection point in the same problem area. Decision was made to halt injections for the day and attempt to put the remaining volume in on Monday (8/6/2025). With the reduction of 10 gallons per vertical foot to 25 gpf, the total amount per IP is 500 total gallons. Therefore, a little less than 200 gallons per IP needed to complete.

Daily Products and Amounts Used

PlumeStop: 950 lbs. AquiFix: 0 lbs.
S-MicroZVI: 505 lbs. BDI Plus: 1.31 Liters

Total Daily Volume Applied

1,514 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
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DAILY PROJECT SUMMARY

Date 10/4/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 8:00
			RRS Time Out 18:00

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Kristin (Floyd Snider)

Completed Injection Points:	12 / 166
Total Percentage Complete:	7 %

PlumeStop Total:	4,983 lbs.
S-MicroZVI Total:	1,775 lbs.
AquiFix Total:	248 lbs.
BDI Plus Total:	6.63 Liters

ON-SITE ACTIVITIES

8:00 - On-site / tailgate

8:30 - Start moving equipment across the street

9:30 - Forklift mechanic said he cannot fix our on-site forklift. Trying to get a new one out here / Drillers begin setting two IP's

11:30 - New forklift on-site / move product across the street

12:15 - Injections on two IP's begin

16:45 - Two IP's completed / site cleanup / demob across street

18:00 - Everything moved over / off-site

Injection Points (List each injection point with total gallons applied)

IP-3-6: 575 Gallons

IP-3-9: 575 Gallons

Deviations From Work Plan Moved the barrier control line upgradient to account for utility lines and to keep a proper barrier.

Comments

Daily Products and Amounts Used

PlumeStop: 928 lbs. AquiFix: 248 lbs.

S-MicroZVI: 248 lbs. BDI Plus: 1.04 Liters

Total Daily Volume Applied

1,150 Gallons

Product Inventory Check Completed

Yes	✓
No	

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Client Representative (Name/Signature)


3.9
3.4
Hillcrest Bakery
Main St
Main St
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DAILY PROJECT SUMMARY

Date 10/6/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 8:15
			RRS Time Out 16:30

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Jake (Floyd Snider)

Completed Injection Points:	19 / 166
Total Percentage Complete:	11 %

PlumeStop Total:	5,447 lbs.
S-MicroZVI Total:	2,678 lbs.
AquiFix Total:	2,000 lbs.
BDI Plus Total:	12.63 Liters

ON-SITE ACTIVITIES

8:15 - On-site / tailgate

8:30 - Site setup

9:00 - Begin injections on barrier 5 IP's left to rest over the weekend / Drillers begin drilling

9:10 - Immediate surfacing from IP-5-9 & 5-15 / Lifting early to see if it will take

9:20 - Will not take, redirecting volume to IP-5-1 & 5-5

11:20 - Finished / Switch to TZ-3 IP's

11:45 - Begin on three IP's within TZ-3

14:55 - Three IP's complete. Pulling IP's and setting three new ones for tomorrow

16:30 - Off-Site

Injection Points (List each injection point with total gallons applied)

TZ-3-2: 700 Gallons

TZ-3-3: 700 Gallons

TZ-3-4: 700 Gallons

** Completion of 10/4/2025 **

IP-5-1: 321 Gallons

IP5-5: 321 Gallons

IP-5-9: 46 Gallons

IP-5-15: 30 Gallons

Deviations From Work Plan IP's-5-9 & 5-15 would immedetaliy start surfacing. Redirected remaining volume to adjacent IP's-5-1 & 5-5

Comments Injections in TZ3 went great. No surfacing, no high pressures. Some high back pressures when breaking rods. Let them rest in between rod breaks

Going to try top-down tooling when moving back to Barrier 5 to see if it will help with localized surfacing events.

Daily Products and Amounts Used

PlumeStop: 464 lbs. AquiFix: 2,000 lbs.

S-MicroZVI: 903 lbs. BDI Plus: 6.3 Liters

Total Daily Volume Applied

2,818 Gallons

Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


TZ3.4
TZ3.3
TZ3.2
MW-41D
5.18
34-D
5.14
5.12
5.10
PZ5-2
15
5.8
5.11
5.6
5.4
9
PZ5-1
5.2
5.5
5.3
5.1
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DAILY PROJECT SUMMARY

Date 10/7/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 17:45

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Chris (City of Bothell)

Completed Injection Points:	23 / 166
Total Percentage Complete:	14%

PlumeStop Total:	5,770 lbs.
S-MicroZVI Total:	3,534 lbs.
AquiFix Total:	4,000 lbs.
BDI Plus Total:	14.58 Liters

ON-SITE ACTIVITIES

7:10 - On-site / tailgate / Site setup

8:00 - Injections begin on the first set of three IP's

12:00 - First three IP's in TZ3 complete / pulling IP's and setting two top-down tools in Barrier 5 **All TZ3 IP's completed**

13:30 - Injections begin on the one top-down tool IP

17:20 - Injections complete on the one IP in Barrier 5 / site cleanup

17:45 - Off-site

Injection Points (List each injection point with total gallons applied)

TZ3-1: 700 Gallons

TZ3-5: 700 Gallons

TZ3-6: 700 Gallons

IP-5-16: 500 Gallons

Deviations From Work Plan Moved IP-5-16 up-gradient 8"

Comments Again, no issues with the TZ3 IP's. 5 to 6 GPM with pressures less than 40 psi

Top-down tool seemed to work. Only injected on 1 IP at a time and pushed 1ft at a time. Took about 4 hours to complete.

Daily Products and Amounts Used

PlumeStop: 323 lbs. AquiFix: 2,000 lbs.

S-MicroZVI: 856 lbs. BDI Plus: 1.95 Liters

Total Daily Volume Applied

2,600 Gallons

Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)



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39
24
Main St
Main St
Main St
Main St
Main St
Main St
Main St
TZ3.6
TZ3.5
TZ3.4
TZ3.3
TZ3.2
TZ3.1
MW-41D
5.16
5.18
34-D
5.14
5.12
5.10
PZ5-2
15
5.8
5.6
5.11
9
5.4
PZ5-1
5.2
5.5
5.3
5.1

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DAILY PROJECT SUMMARY

Date 10/8/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 17:15

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Amy (Floyd Snider)

Completed Injection Points:	25 / 166
Total Percentage Complete:	15%

PlumeStop Total:	6,416 lbs.
S-MicroZVI Total:	3,746 lbs.
AquiFix Total:	4,000 lbs.
BDI Plus Total:	15.48 Liters

ON-SITE ACTIVITIES

7:00 - On-site / tailgate

7:20 - Site cleanup / Drillers pull IP from yesterday

7:50 - Drillers begin coring out IP's in driveway

9:45 - Drillers begin setting two IP's in Barrier 5

10:15 - Injections on two IP's begin

12:35 - Was apparent that 5-20 was not flowing properly. Decided to pull IP and redrill a 2ft retractable screen. Bentonite was poured around rod annulus while drilling and hydrated at the surface.

12:50 - Injections resume on IP-5-25

15:50 - Injections complete on the two IP's in Barrier 5 / drillers pulling IP's / Site cleanup

16:00 - Asses Barrier 4 layout

17:15 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-5-20: 500 Gallons

IP-5-25: 500 Gallons

Deviations From Work Plan Top-down test.

Comments The top-down tool on IP-5-25 started off fine, but after 3ft was surly clogged. After 4ft it was apparent it wouldn't work. Pulled the IP and reset it with a bottom-up 2ft retractable screen. No issues after. IP got all volume. Will have new top-down tooling on Monday. Will try with new approach then.

Daily Products and Amounts Used

PlumeStop: 646 lbs. AquiFix: 0 lbs.

S-MicroZVI: 212 lbs. BDI Plus: 0.9 Liters

Total Daily Volume Applied

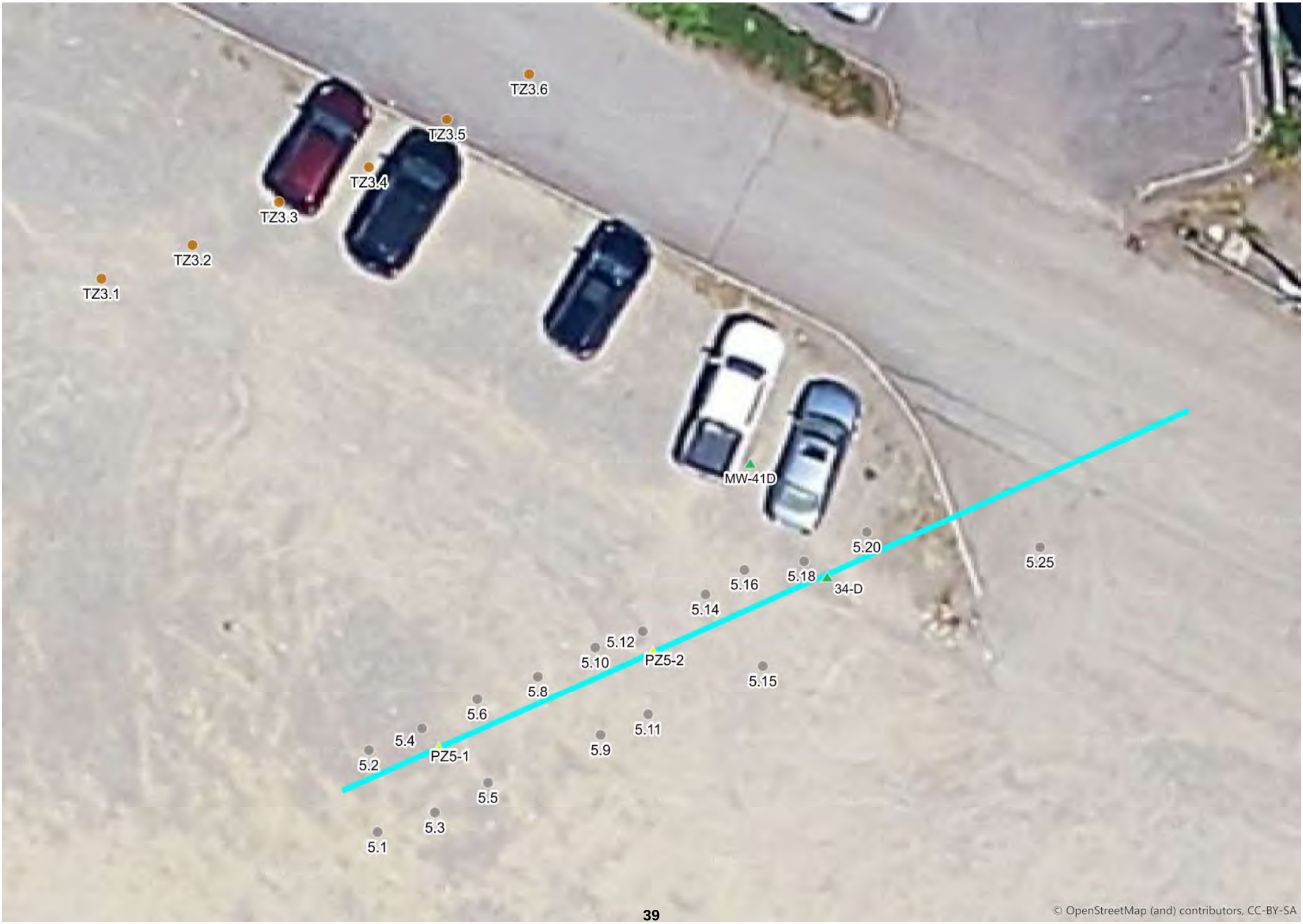
1,000 Gallons

Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


TZ3.6
TZ3.5
TZ3.4
TZ3.3
TZ3.2
TZ3.1
MW-41D
5.20
5.25
5.18
34-D
5.16
5.14
5.12
5.10
PZ5-2
5.15
5.8
5.6
5.11
5.4
5.9
5.2
PZ5-1
5.5
5.3
5.1
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DAILY PROJECT SUMMARY

Date 10/9/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 18:45

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Amy (Floyd Snider)

Completed Injection Points:	25 / 166
Total Percentage Complete:	15%

PlumeStop Total:	7,135 lbs.
S-MicroZVI Total:	3,749 lbs.
AquiFix Total:	4,440 lbs.
BDI Plus Total:	18.52 Liters

ON-SITE ACTIVITIES

7:00 - On-site / tailgate
7:20 - Set setup and safety setup start
7:30 - Realign and mark out Barrier 4 IP's
8:15 - Drill 3 IP's
9:45 - Start clear water test
10:15 - Start injections on the three IP's in Barrier 4
11:05 - Surfacing, halt and isolate IP's
12:30 - Install 2 Temporary PZ's, one at 35-25ft and one at 25-15ft / pump on each IP at 1 GPM one at a time
15:40 - Resume injections
16:20 - Injections seemed to work when paired with others or solo. But cannot run all three IP's at the same time. Will have to stagger them tomorrow.
18:00 - Getting too late to complete. Will resume tomorrow / site cleanup
18:45 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-4-1: 280 Gallons

IP-4-5: 280 Gallons

IP4-9: 280 Gallons

Deviations From Work Plan Surfacing issues continued. After 200 total gallons injected on each IP, an additional 5 gpf was reduced.

Comments This area is in a high foot traffic area. I have been trying to keep the area as clean as possible including black puddles but still slighty messy at rod breaks

Daily Products and Amounts Used

PlumeStop: 720 lbs. AquiFix: 192 lbs.

S-MicroZVI: 192 lbs. BDI Plus: 0.813 Liters

Total Daily Volume Applied

840 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/10/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:10
			RRS Time Out 18:15

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Amy (Floyd Snider)

Completed Injection Points:	30 / 166
Total Percentage Complete:	18%

PlumeStop Total:	8,415 lbs.
S-MicroZVI Total:	4,091 lbs.
AquiFix Total:	4,782 lbs.
BDI Plus Total:	20.0 Liters

ON-SITE ACTIVITIES

7:10 - On-site / tailgate with drillers
8:00 - Resume injections on the three IP's from the day before.
11:00 - Three IP's complete. Pulling and setting new IP's
12:00 - Injections start on two new IP's
16:45 - One of two IP's complete
17:30 - Set of two IP's complete / site cleanup
17:50 - Get ready to stage across street.
18:15 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-4-1: 160 Gallons
IP-4-2: 400 Gallons
IP-4-5: 160 Gallons
IP-4-17: 400 Gallons
IP-4-9: 160 Gallons

Deviations From Work Plan N/A

Comments Injections were able to receive volume if they stayed low flow and did not have 3 IP's pumping at the same time.
Missed our opportunity to move trailer across the street before people parked there.

Daily Products and Amounts Used

PlumeStop: 1,280 lbs. AquiFix: 342 lbs.
S-MicroZVI: 342 lbs. BDI Plus: 1.45 Liters

Total Daily Volume Applied

1,280 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/11/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 19:15

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Grady & Michael (Holt)

Jake (Floyd Snider)

Completed Injection Points:	35 / 166
Total Percentage Complete:	21%

PlumeStop Total:	11,179 lbs.
S-MicroZVI Total:	4,829 lbs.
AquiFix Total:	5,520 lbs.
BDI Plus Total:	23.1 Liters

ON-SITE ACTIVITIES

6:50 - On-site

7:05 - Tailgate / begin moving equipment and product across the street

8:00 - Drillers begin setting three IP's

9:15 - Injections on first set of three IP's begin

13:45 - Injections on first set of three IP's complete / Pull these IP's and then start setting new set of four IP's

14:15 - Injections start on new IP. Setting and starting. First one done

18:40 - Injections complete

Injection Points (List each injection point with total gallons applied)

IP-3-4: 575 Gallons

IP-3-5: 575 Gallons

**Need to come back and finish **

IP-3-7: 575 Gallons

IP-5-15: 575 Gallons

IP-3-11: 275 Gallons

IP-3-10: 575 Gallons

IP-3-12: 275 Gallons

Deviations From Work Plan N/A

Comments Injections went great on the first three IP's. Roughly half way through IP's-3-11 & 12, surfacing kept occurring from cracks in the surface asphalt. Tried pulling these IP's out of the zone and try injections to no avail. Will need to try again by themselves

Daily Products and Amounts Used

PlumeStop: 2,764 lbs. AquiFix: 738 lbs.

S-MicroZVI: 738 lbs. BDI Plus: 3.1 Liters

Total Daily Volume Applied

3,425 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/13/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 6:45
			RRS Time Out 4:45

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Kevin (Holt)

Maddy (Floyd Snider)

Completed Injection Points:	38 / 166
Total Percentage Complete:	23%

PlumeStop Total:	12,379 lbs.
S-MicroZVI Total:	5,147 lbs.
AquiFix Total:	5,838 lbs.
BDI Plus Total:	24.46 Liters

ON-SITE ACTIVITIES

6:45 - On-site / stage trailer / site setup

8:20 - Holt on-site / tailgate

8:45 - Holt across the street discussing air knife points with their crew

9:30 - Drillers begin setting three IP's for the day in Barrier 4

10:00 - Injections begin

16:00 - Injection complete / site cleanup

16:45 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-4-4: 400 Gallons

IP-4-14: 400 Gallons

IP-4-19: 400 Gallons

Deviations From Work Plan N/A

Comments

Daily Products and Amounts Used

PlumeStop: 1,200 lbs. AquiFix: 318 lbs.

S-MicroZVI: 318 lbs. BDI Plus: 1.36 Liters

Total Daily Volume Applied

1,200 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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Hillcrest Bakery
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Ice Cream
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TZ3.5
TZ3.6
TZ3.3
TZ3.4
TZ3.2
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Citrus Tree Soap
& Skincare
Gift shop
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PZ5-1
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Seattle and Saigon
Spice store
18122
44
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REGENESIS
REMEDIATION SERVICES
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DAILY PROJECT SUMMARY

Date 10/14/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 17:45

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie, Kevin & Grady (Holt)

Jake (Floyd Snider)

Completed Injection Points:	42 / 166
Total Percentage Complete:	25%

PlumeStop Total:	13,669 lbs.
S-MicroZVI Total:	5,572 lbs.
AquiFix Total:	5,838 lbs.
BDI Plus Total:	26.27 Liters

ON-SITE ACTIVITIES

7:00 - On-site / tailgate with Holt and Floyd Snider

7:25 - Site setup

8:00 - RRS organizes product lay down yard / Drillers begin setting three IP's in Barrier 5

9:15 - Injections on three IP's in Barrier 5 begin

13:00 - Two of three IP's complete. Pulling these two and setting one more in an attempt to get four IP's completed.

13:30 - Injections begin on new IP and continue on one from the morning

16:50 - All IP's completed. Pulling last two / site cleanup

17:45 - Off-site

** 2ft top-down exposed port screen seems to work well. We did have an IP clog up and the whole tool was filled with sand **

Injection Points (List each injection point with total gallons applied)

IP-5-7: 500 Gallons IP-5-21: 500 Gallons

IP-5-22: 500 Gallons

IP-5-29: 500 Gallons

Deviations From Work Plan Still at the 25 gallons per foot mixture.

Comments Three of the four IP's today were the new 2ft top-down tool and one was still a bottom-up retractable screen. No issues with surfacing in the problem area but one IP has its borehole casing blown out and would non-stop surface from annulus. This IP was pulled and reset about 2" down-gradient

Daily Products and Amounts Used

PlumeStop: 1,290 lbs. AquiFix: 0 lbs.

S-MicroZVI: 425 lbs. BDI Plus: 1.81 Liters

Total Daily Volume Applied

2,000 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)



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REMEDIATION SERVICES
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DAILY PROJECT SUMMARY

Date 10/15/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 18:45

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Jake (Floyd Snider)

Completed Injection Points:	46 / 166
Total Percentage Complete:	28%

PlumeStop Total:	15,269 lbs.
S-MicroZVI Total:	5,996 lbs.
AquiFix Total:	6,262 lbs.
BDI Plus Total:	28.51 Liters

ON-SITE ACTIVITIES

7:00 - On-site / tailgate / site setup
8:30 - Drillers begin setting two IP's in Barrier 4
9:15 - Injections begin on one IP
9:30 - Injections begin on second IP
13:45 - First set of two IP's complete / pull and set 2 new IP's
14:10 - Injections begin on second set of two IP's
18:00 - Injections complete / site cleanup
18:45 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-4-3: 400 Gallons IP-4-15: 400 Gallons

IP-4-6: 400 Gallons IP-4-18: 400 Gallons

Deviations From Work Plan N/A

Still at 20 gallons per vertical foot

Comments Still had some issues with surfacing. Seems like the 27-31ft zone always has some product come up from our problem area. Doesn't matter if it's top-down or bottom-up. Had some surfacing from random cracks in the surface as well (5-15ft away). Multiple areas at times and would just flow downhill beneath the pebbles at surface. Could not locate every spot but could find some.

Daily Products and Amounts Used

PlumeStop: 1,600 lbs. AquiFix: 424 lbs.

S-MicroZVI: 424 lbs. BDI Plus: 1.81 Liters

Total Daily Volume Applied

1,600 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


4.18
4
4.19
4.14
PZ4.1
4.17
4.15
PZ4.2
4.6
4.4
4.9
4.2
4.5
4.5
4.3
4.1
NMW
Bon Chocolats
48
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REGENESIS
REMEDIATION SERVICES
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DAILY PROJECT SUMMARY

Date 10/16/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:15
			RRS Time Out 18:15

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Kristin (Floyd Snider)

Completed Injection Points: 51 / 166

Total Percentage Complete: 31%

PlumeStop Total: 17,286 lbs.

S-MicroZVI Total: 6,553 lbs.

AquiFix Total: 6,262 lbs.

BDI Plus Total: 30.86 Liters

ON-SITE ACTIVITIES

7:15 - On-site / site setup

7:45 - Tailgate with Holt

8:00 - Drillers begin setting four IP's in Barrier 5

10:15 - Was decided to pull IP-5-30 since I assume it is clogged. Pulled and packed with bentonite and will try again tomorrow

11:10 - State Ecology rep on-site / tour

11:45 - Resume injections

13:40 - IP-5-19 & 27 completed. Pulling these IP's and packing borehole / setting one more bottom-up screen

14:25 - IP-5-13 completed. Pulling IP

17:15 - IP complete. Pulling / site cleanup

18:15 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-5-13: 500 Gallons IP-5-27: 500 Gallons IP-5-23: 500 Gallons IP-5-30: 100 Gallons

IP-5-19: 500 Gallons IP-5-31 500 Gallons

Deviations From Work Plan N/A

Comments IP-5-30 started okay, but quickly became high pressure and no flow. I assumed the screen was either broken or clogged with sediment. Decided to pull this IP to check. Screen and 10ft of drillers rodstring was packed with sediment. Repacked this IP and setup on 5-31. Will resume 5-31 tomorrow. Saw some surfacing in the problem area while injecting on 5-13 at 37-45ft bgs. about 35ft away. Was fine everywhere else

Daily Products and Amounts Used

PlumeStop: 1,680 lbs. AquiFix: 0 lbs.

S-MicroZVI: 553 lbs. BDI Plus: 2.35 Liters

Total Daily Volume Applied

2,600 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/17/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:10
			RRS Time Out 19:15

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Lydia (Floyd Snider)

Completed Injection Points: 56 / 166

Total Percentage Complete: 34%

PlumeStop Total: 18,836 lbs.

S-MicroZVI Total: 7,064 lbs.

AquiFix Total: 6,264 lbs.

BDI Plus Total: 32.56 Liters

ON-SITE ACTIVITIES

7:10 - On-site / tailgate with Holt

7:30 - Site setup

8:00 - Holt begins setting three IP's

8:45 - Injections begin

12:00 - IP-5-30 complete / pulling IP

12:45 - All three IP's completed. Pulling and setting last two points of Barrier 5

13:10 - Injections begin on one new IP

16:45 - All five injection points are completed and so is Barrier 5 / site cleanup

17:00 - Block parking spots at Speedy Glass / prep equipment move

18:45 - Move equipment across street / stage trailer

19:15 - Off-site

**New table to show area completion and total amount of product it received

Some fat finger manual entry errors threw some of the totals off. I have quadruple checked and verified with amount of product on-site that this is where were currently at

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	4,034	986	986	4.14	4,575	7	25
Barrier 4	4,802	1,278	1,278	5.42	4,920	12	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	18,836	7,064	6,264	32.56	31,036	56	166

As of 10/17/2025

Injection Points (List each injection point with total gallons applied)

IP-5-17: 500 Gallons
IP-5-24: 500 Gallons
IP-5-26: 500 Gallons
IP-5-28: 500 Gallons
IP-5-30: 400 Gallons

Deviations From Work Plan N/A

Comments Not one issue with surfacing today. Five IP's complete and Barrier 5 is also complete.
Please see attached table above for area by area total

Daily Products and Amounts Used

PlumeStop: 1,550 lbs. AquiFix: 0 lbs.

S-MicroZVI: 511 lbs. BDI Plus: 2.17 Liters

Total Daily Volume Applied

2,400 Gallons

Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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5.14
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5.12
5.17
5.10
PZ5-2
5.8
5.13
5.15
5.6
5.11
5.4
5.9
PZ5-1
5.2
5.7
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5.3
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MW-41D
CL69090
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/18/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 18:40

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Cody & Grady (Holt)

Lydia (Floyd Snider)

Completed Injection Points: 59 / 166

Total Percentage Complete: 36%

PlumeStop Total: 21,173 lbs.

S-MicroZVI Total: 7,721 lbs.

AquiFix Total: 6,921 lbs.

BDI Plus Total: 35.27 Liters

ON-SITE ACTIVITIES

7:00 - On-site / tailgate with Grady

7:20 - Site setup / block entrances off

7:50 - Bring product over from laydown yard

8:00 - Grady begins drilling

9:30 - Cody on-site helping Grady finish first set of IP's

10:00 - Injections begin on three IP's

10:30 - Pedestrian and vehicle traffic increasing due to a local protest

14:20 - Two IP's nearing completion, pulling and setting 3 new IP's

15:00 - Injections on three new IP's begin while completion of third IP from first set slowly finishes up

18:10 - Injections complete for the day / cleanup

18:40 - Off-site

**Barrier 3 product totals have been accounted for five (5) IP's that have not yet received their full amount (partially completed).

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	6,371	1,643	1,643	6.85	7,620	10	25
Barrier 4	4,802	1,278	1,278	5.42	4,920	12	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	21,173	7,721	6,921	35.27	34,081	59	166

As of 10/18/2025

Injection Points (List each injection point with total gallons applied)

IP-3-8: 575 Gallons
IP-3-13: 575 Gallons
IP-3-16: 575 Gallons
IP-3-17: 440 Gallons
IP-3-21: 440 Gallons
IP-3-25: 440 Gallons

**1,305 gallons away from 5 more IP completions

Deviations From Work Plan Moved a few IP's a couple inches to not be in danger zone of utilities.

Comments IP-3-8 begun surfacing at the 15-13ft bgs. zone from the same cracks in the asphalt that had surfacing last weekend. Slowly injected the remaining 160 gallons or so at 1 gpm. All volume was accepted. Completed three IP's and got 440 of 575 (77%) gallons of another three IP's. Will complete these three IP's in the morning then start a new set. Footprint is tight and three IP's at a time seems to be smooth.

Daily Products and Amounts Used

PlumeStop: 2,337 lbs. AquiFix: 657 lbs.
S-MicroZVI: 657 lbs. BDI Plus: 2.71 Liters

Total Daily Volume Applied

3,045 Gallons

Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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Hillcrest Bakery
Main St
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/19/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:15
			RRS Time Out 18:35

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Cody & Grady (Holt)

Jake (Floyd Snider)

Completed Injection Points: 66 / 166

Total Percentage Complete: 40%

PlumeStop Total: 23,334 lbs.

S-MicroZVI Total: 8,267 lbs.

AquiFix Total: 7,467 lbs.

BDI Plus Total: 37.6 Liters

ON-SITE ACTIVITIES

7:15 - On-site / site setup

7:30 - Tailgate

8:00 - Begin injections on unfinished IP's from day before

8:30 - Drillers add a top-down tool to complete unfinished IP from week before (IP-3-11)

9:00 - All three IP's complete / pulling them /

9:30 - Start second set of three bottom-up IP's

10:00 - Surfacing issues begin

15:55 - Decided to pull IP-3-14 due to constant surfacing from rod annulus and cracks around IP

17:25 - IP's complete / pulling IP's / Site cleanup

18:05 - Moving equipment over

18:35 - Off-site

** Slight correction on yesterdays DPS. It was 2,457 lbs. of PlumeStop and not 2,337 lbs. Total is reflected in tables

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	8,532	2,189	2,189	9.18	10,150	17	25
Barrier 4	4,802	1,278	1,278	5.42	4,920	12	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	23,334	8,267	7,467	37.60	36,611	66	166

As of 10/19/2025

Injection Points (List each injection point with total gallons applied)

IP-3-17: 135 Gallons IP-3-11: 300 Gallons IP3-19: 575 Gallons

IP-3-21: 135 Gallons IP-3-12: 300 Gallons IP-3-24: 575 Gallons

IP-3-25: 135 Gallons IP-3-14: 375 Gallons

Deviations From Work Plan N/A

Comments IP-3-14 had some surfacing issues around the conduit cut-out cracks in the asphalt from 25-15ft bgs. Will have to return with a top-down screen for the last 200 gallons.

Daily Products and Amounts Used

PlumeStop: 2,041 lbs. AquiFix: 546 lbs.

S-MicroZVI: 546 lbs. BDI Plus: 2.33 Liters

Total Daily Volume Applied

2,530 Gallons

Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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Hillcrest Bakery
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/22/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 18:15

On-Site Personnel (Name and Firm)

Spencer & David (RRS)

Louie & Grady (Holt)

Ryne (Floyd Snider)

Completed Injection Points: 68 / 166

Total Percentage Complete: 41%

PlumeStop Total: 24,134 lbs.

S-MicroZVI Total: 8,480 lbs.

AquiFix Total: 7,680 lbs.

BDI Plus Total: 38.50 Liters

ON-SITE ACTIVITIES

7:00 - On-site / site orientation with David

7:30 - Site setup

9:30 - Both Holt drillers on-site

9:45 - Tailgate with all personnel on-site

10:15 - Begin drilling first set of IP's

10:35 - Injections begin

14:45 - Move some temporary fencing over to Barrier 1 area and begin planning for next weeks work over there

17:10 - Injections complete / site cleanup

18:15 - Off-site

IP-4-13 was a bottom-up screen and clogged up after 100 gallons injected.

Pulled it out and reset it on the same spot with a 2ft top-down tool.

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	8,532	2,189	2,189	9.18	10,150	17	25
Barrier 4	5,602	1,491	1,491	6.32	5,720	14	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	24,134	8,480	7,680	38.50	37,411	68	166

As of 10/22/2025

Injection Points (List each injection point with total gallons applied)

IP-4-7: 400 Gallons

IP-4-13: 400 Gallons

Deviations From Work Plan N/A

Comments Moved some more temporary fencing over to the Barrier 1 area to prepare for work over there. Surfacing kept occurring today from a couple feet off the IP or from the annulus itself. I'm not sure if the rods need a wash and thread brushing or if we need to start using thread tape and casing seal while driving IP's. I have mentioned it a few times to the drillers but they continue to mainly hand/wrench tighten rods in loose lithology.

Daily Products and Amounts Used

PlumeStop: 800 lbs. AquiFix: 213 lbs.

S-MicroZVI: 213 lbs. BDI Plus: 0.9 Liters

Total Daily Volume Applied

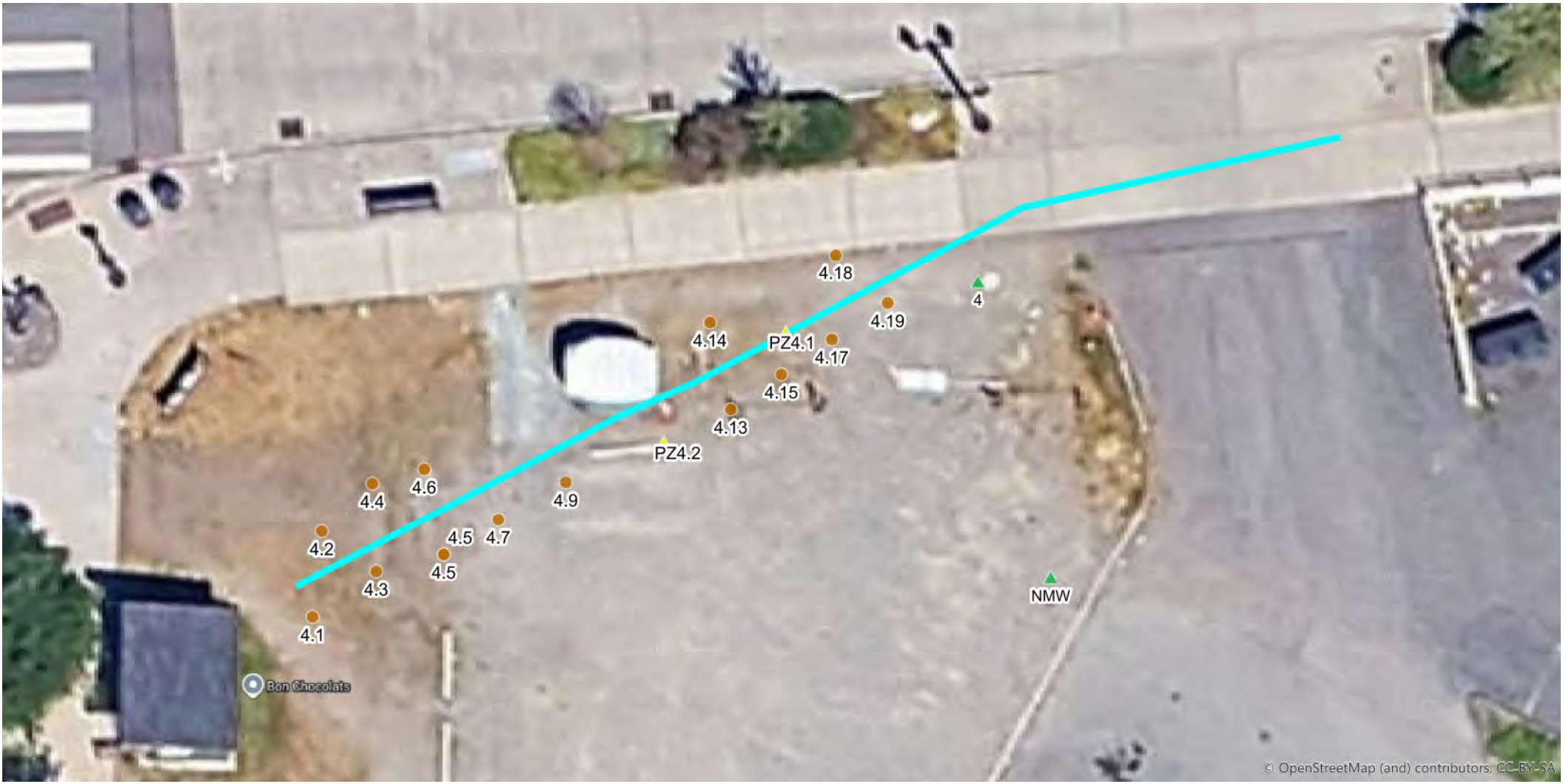
800 Gallons

Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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Bon Chocolats
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/23/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 6:50
			RRS Time Out 17:10

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Amy (Floyd Snider)

Completed Injection Points: 70 / 166

Total Percentage Complete: 42%

PlumeStop Total: 25,061 lbs.

S-MicroZVI Total: 8,727 lbs.

AquiFix Total: 7,927 lbs.

BDI Plus Total: 1.04 Liters

ON-SITE ACTIVITIES

6:50 - On-site / site setup

7:30 - Tailgate with Holt

8:15 - Drilling begins on three IP's

9:00 - Injections begin

10:00 - Complications with surfacing. Pumping slow

12:45 - Was decided to stop pumping on IP-4-8 and focus on the other two active IP's

15:35 - Injections on two of the three IP's complete. Pulling all points / site cleanup

17:10 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	8,532	2,189	2,189	9.18	10,150	17	25
Barrier 4	6,529	1,738	1,738	7.36	6,647	16	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	25,061	8,727	7,927	39.54	38,338	70	166

As of 10/23/2025

Injection Points (List each injection point with total gallons applied)

IP-4-8: 120 Gallons

IP-4-12: 400 Gallon

IP-4-16: 400 Gallons

Deviations From Work Plan N/A

Comments IP-4-8 kept surfacing roughly 8" off of injection point. Again, not sure if it's leaky rodstring or just saturated aquifer. Decided to pull this IP and will need to relocate it. Drillers stated that when they pulled IP-4-8 that the screen and 5ft of their rods was filled with sand. I saw no indication of a clogged tool while injecting. Could be a sign of heaving sands

Daily Products and Amounts Used

PlumeStop: 927 lbs. AquiFix: 247 lbs.

S-MicroZVI: 247 lbs. BDI Plus: 1.04 Liters

Total Daily Volume Applied

927 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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NMW
Bon Chocolats
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/24/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 18:30

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Jake (Floyd Snider)

Completed Injection Points: 73 / 166

Total Percentage Complete: 44%

PlumeStop Total: 26,261 lbs.

S-MicroZVI Total: 9,046 lbs.

AquiFix Total: 8,246 lbs.

BDI Plus Total: 40.9 Liters

ON-SITE ACTIVITIES

7:00 - On-site. Still fairly dark until 7:30

7:25 - Site setup

8:00 - Tailgate with Holt

8:30 - Begin coring out 10 sidewalk IP's in Barrier 4

11:05 - Coring complete driller patching up 8 IP's with asphalt patch. One IP for today located in the gravel. Other 2 in sidewalk

11:50 - Start first IP / 12:20 - Start second IP / 12:50 - Start third IP

16:10 - First IP complete / 16:25 - Second IP complete / 16:50 - Third IP complete / Site cleanup

18:00 - Move injection trailer across the street.

18:30 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	8,532	2,189	2,189	9.18	10,150	17	25
Barrier 4	7,729	2,057	2,057	8.72	7,847	19	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	26,261	9,046	8,246	40.90	39,538	73	166

As of 10/24/2025

Injection Points (List each injection point with total gallons applied)

IP-4-20: 400 Gallons

IP-4-23: 400 Gallons

IP-4-27: 400 Gallons

Deviations From Work Plan N/A

Comments Holt cored out all 10 IP's in the sidewalk/driveway to Baskin Robbins. Will always keep an active lane-way open but will likely only be able to do 3 at a time in this area. Accuracy error was too high for GPS gathering. Will gather completed IP's tomorrow. No issues injecting today. IP's within the concrete capped areas do fine. Even had one IP in the gravel today.

Daily Products and Amounts Used

PlumeStop: 1,200 lbs. AquiFix: 319 lbs.

S-MicroZVI: 319 lbs. BDI Plus: 1.36 Liters

Total Daily Volume Applied

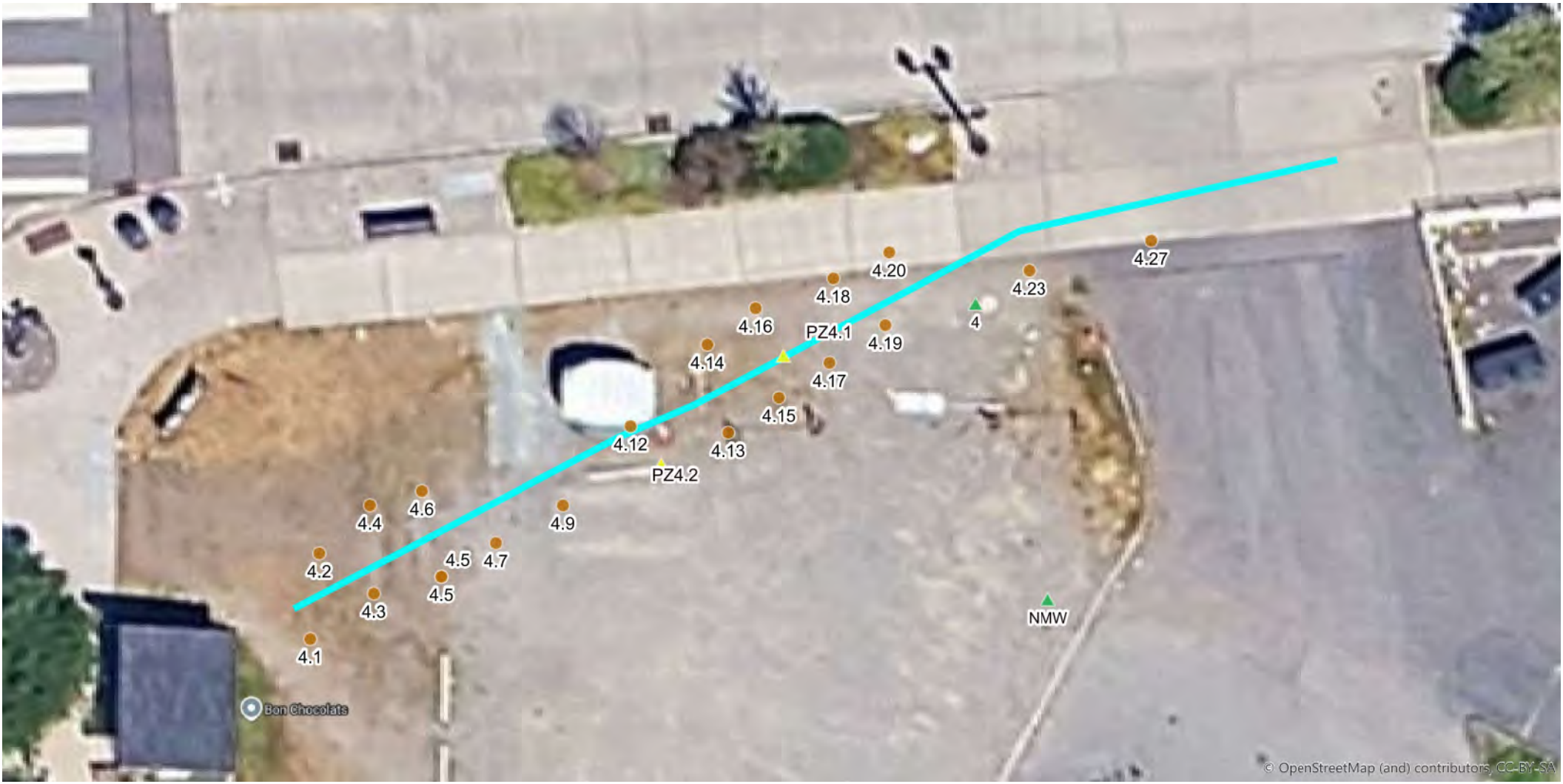
1,200 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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Bon Chocolats
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/25/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:30
			RRS Time Out 17:45

On-Site Personnel (Name and Firm)

Spencer & David (RRS)

Cody & Grady (Holt)

Ryne (Floyd Snider)

Completed Injection Points: 77 / 166

Total Percentage Complete: 46%

PlumeStop Total: 28,117 lbs.

S-MicroZVI Total: 9,542 lbs.

AquiFix Total: 8,742 lbs.

BDI Plus Total: 42.98 Liters

ON-SITE ACTIVITIES

7:30 - On-site / tailgate with Holt

7:45 - Site setup / move product over

9:30 - Drillers begin setting four IP's on Barrier 3

10:30 - Injections begin

13:50 - Surfacing from rod annulus due to blown casing seal caused us to pull IP-3-18 at 325 gallons and reset it with a top-down tool. Seal was blown due to backpressure in hole while pulling the IP to the next interval.

16:00 - Drillers begin setting three of four IP's for tomorrow

16:25 - Injections complete / site cleanup

17:45 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	10,388	2,685	2,685	11.26	12,450	21	25
Barrier 4	7,729	2,057	2,057	8.72	7,847	19	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	28,117	9,542	8,742	42.98	41,838	77	166

As of 10/25/2025

Injection Points (List each injection point with total gallons applied)

IP-3-2: 575 Gallons IP-3-18: 575 Gallons

IP-3-3: 575 Gallons IP-3-23: 575 Gallons

Deviations From Work Plan N/A

Comments First IP we've visually witnessed blow out the seal around rod annulus. There has been some high back pressures in Barrier 3. Three of four IP's set for tomorrow. Only need to set the partial

Daily Products and Amounts Used

PlumeStop: 1,856 lbs. AquiFix: 496 lbs.

S-MicroZVI: 496 lbs. BDI Plus: 2.08 Liters

Total Daily Volume Applied

2,300 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/26/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:30
			RRS Time Out 18:00

On-Site Personnel (Name and Firm)

Spencer (RRS)

Cole & Grady (Holt)

Kristin (Floyd Snider)

Completed Injection Points: 81 / 166
Total Percentage Complete: 49%

PlumeStop Total: 29,329 lbs.
S-MicroZVI Total: 9,957 lbs.
AquiFix Total: 9,157 lbs.
BDI Plus Total: 44.72 Liters

ON-SITE ACTIVITIES

7:30 - On-site / site setup

8:15 - Tailgate with everyone on site

8:35 - Begin injections that were set from day before

9:15 - Advance top-down tool for partial IP / start IP

15:10 - Injections complete. Barrier 3 complete. / site cleanup

17:00 - Move equipment back over to gravel lot for work on Barrie 4 tomorrow.

18:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	7,729	2,057	2,057	8.72	7,847	19	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	29,329	9,957	9,157	44.72	43,763	81	166

As of 10/26/2025

Injection Points (List each injection point with total gallons applied)

IP-3-1: 575 Gallons

IP-3-20: 575 Gallons IP-3-14: 200 Gallons

IP-3-22: 575 Gallons

Deviations From Work Plan N/A

Comments Barrier 3 completed. IP-3-14 had some surfacing from the asphalt cracks at the end of it's 3/4 intervals. So I let it rest for a while before finishing at 1 gpm

Daily Products and Amounts Used

PlumeStop: 1,553 lbs. AquiFix: 415 lbs.

S-MicroZVI: 415 lbs. BDI Plus: 1.74 Liters

Total Daily Volume Applied

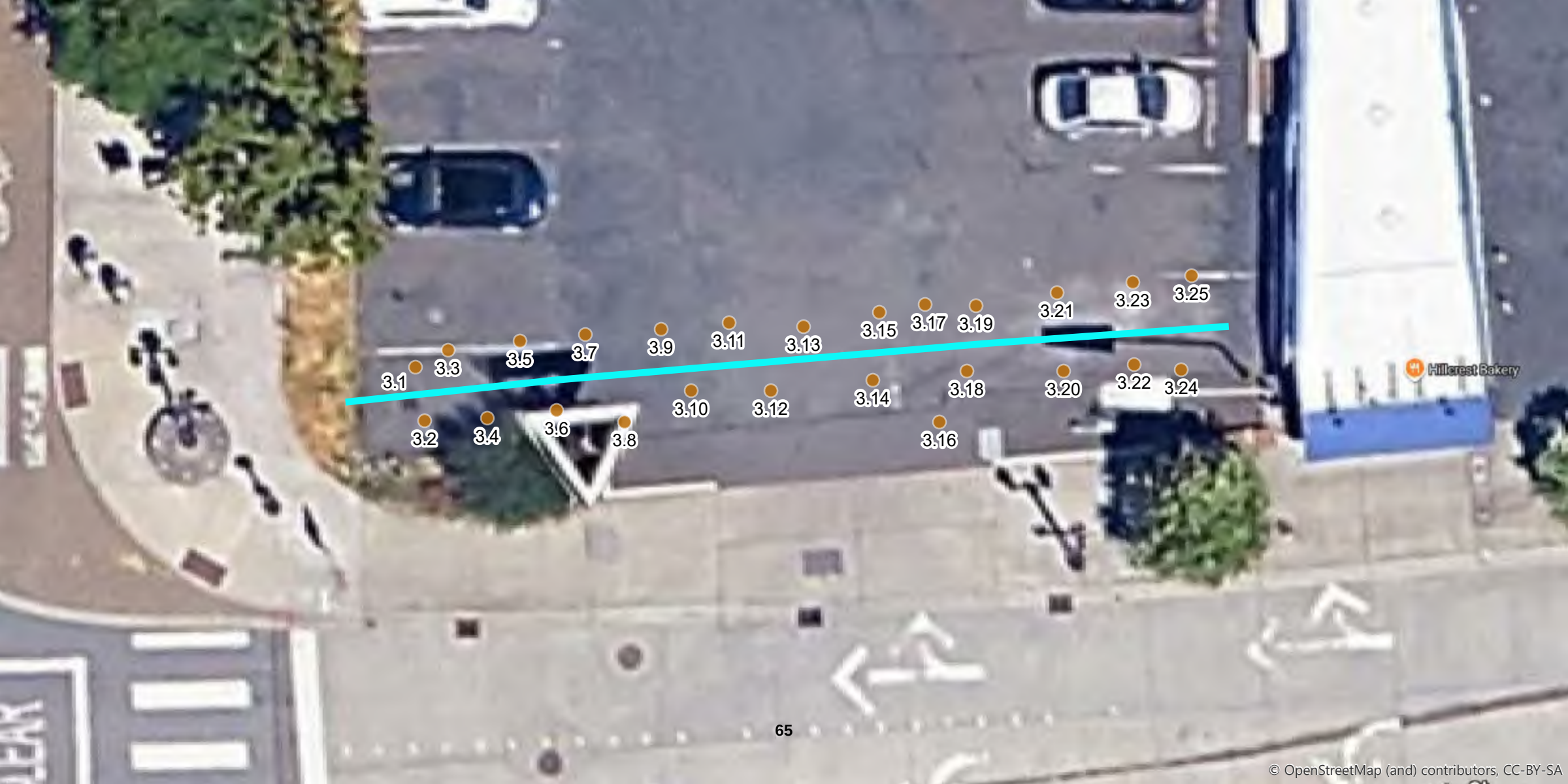
1,925 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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Hillcrest Bakery
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/27/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:30
			RRS Time Out 18:00

On-Site Personnel (Name and Firm)

Spencer & David (RRS)

Louie & Grady (Holt)

Ryne (Floyd Snider)

Completed Injection Points: 84 / 166

Total Percentage Complete: 51%

PlumeStop Total: 30,529 lbs.

S-MicroZVI Total: 10,276 lbs.

AquiFix Total: 9,476 lbs.

BDI Plus Total: 46.08 Liters

ON-SITE ACTIVITIES

7:30 - On-site / site setup

8:00 - Tailgate

9:10 - Drillers begin setting IP's for the day

10:15 - Injections begin on set of three IP's

15:00 - Injections on one IP complete

16:30 - Injections complete on all IP's / Site cleanup

18:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	8,929	2,376	2,376	10.08	9,047	22	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	30,529	10,276	9,476	46.08	44,963	84	166

As of 10/27/2025

Injection Points (List each injection point with total gallons applied)

IP-4-10: 400 Gallons

IP-4-25: 400 Gallons

IP-4-28: 400 Gallons

Deviations From Work Plan

Comments IP-4-25 clogged up pretty quick with heaving sands. IP reset in the same hole as before with top-down tool. Going to use top-down tools in the driveway from here on out.

Very small footprint for injectable area as we need to keep a laneway open for Baskin Robbins customers. Probably should have cored these out further in advance.

Daily Products and Amounts Used

PlumeStop: 1,200 lbs. AquiFix: 319 lbs.

S-MicroZVI: 319 lbs. BDI Plus: 1.36 Liters

Total Daily Volume Applied

1,200 Gallons

Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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PZ4.1
PZ4.2
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NMW
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Bon Chocolats
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/28/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:30
			RRS Time Out 17:00

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Louie & Grady (Holt)

Amy (Floyd Snider)

Completed Injection Points: 87 / 166

Total Percentage Complete: 52%

PlumeStop Total: 31,602 lbs.

S-MicroZVI Total: 10,561 lbs.

AquiFix Total: 9,761 lbs.

BDI Plus Total: 47.30 Liters

ON-SITE ACTIVITIES

7:30 - On-site / site setup

8:00 - Tailgate

8:30 - Drillers begin setting three IP's within Barrier 4

9:20 - Injections begin

15:45 - Injections complete / site cleanup

16:15 - Drillers set one IP in Barrier 4 for tomorrow morning

17:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	10,002	2,661	2,661	11.30	10,120	25	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	31,602	10,561	9,761	47.30	46,036	87	166

As of 10/28/2025

Injection Points (List each injection point with total gallons applied)

IP-4-8: 280 Gallons

IP-4-22: 400 Gallons

IP-4-26: 400 Gallons

Deviations From Work Plan N/A

Comments IP 4-8 was a partial from 10/23/25. Completed it with a bottom up so the 54LT rig could lift it and it was by itself.
Some surfacing in the gravel area while injecting on the two IP's in the driveway roughly 13 and 26 ft away. Was only at the 31-33ft zone though.

Daily Products and Amounts Used

PlumeStop: 1,073 lbs. AquiFix: 285 lbs.

S-MicroZVI: 285 lbs. BDI Plus: 1.22 Liters

Total Daily Volume Applied

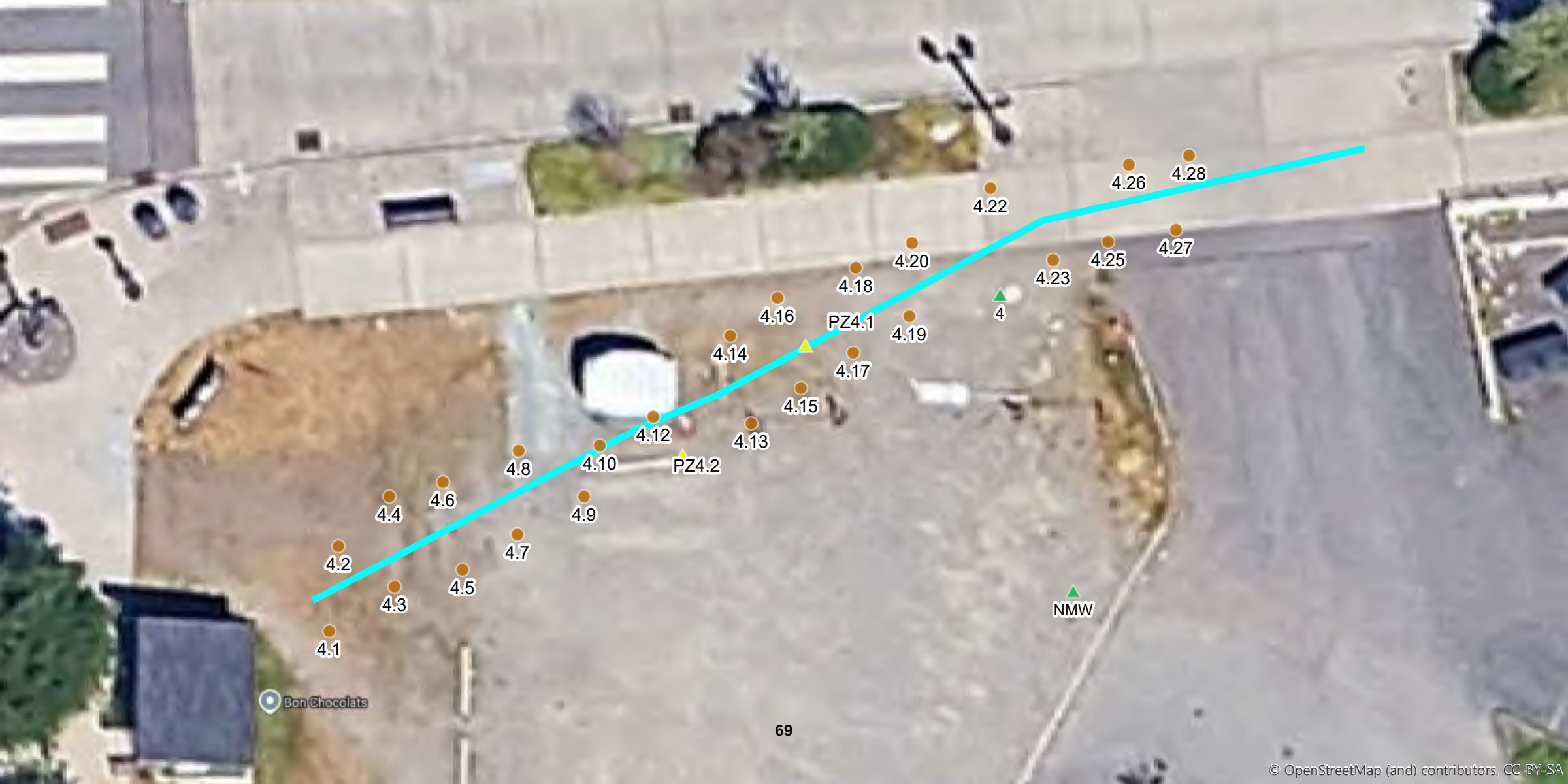
1,073 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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PZ4.1
PZ4.2
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NMW
Bon Chocolats
69
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/29/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:35
			RRS Time Out 19:30

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Cole & Grady (Holt)

Jake (Floyd Snider)

Completed Injection Points: 92 / 166

Total Percentage Complete: 55%

PlumeStop Total: 33,820 lbs.

S-MicroZVI Total: 11,152 lbs.

AquiFix Total: 10,352 lbs.

BDI Plus Total: 49.8 Liters

ON-SITE ACTIVITIES

7:35 - On-site / tailgate with Holt

7:50 - Site setup / drillers begin setting last two IP's for a set of three on the day

8:40 - Drillers complete / injections begin

13:30 - Injections complete on the first set of three IP's. Since we only have three left and it's only 13:30 we are going to do another three IP's / Pull IP's and set three new ones

14:40 - Injections begin on the second set of three IP's

18:35 - Injections complete / site cleanup

19:30 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,220	3,252	3,252	13.80	12,340	30	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	33,820	11,152	10,352	49.80	48,256	92	166

As of 10/29/2025

Injection Points (List each injection point with total gallons applied)

IP-4-11: 400 Gallons IP-4-21: 220 Gallons

IP-4-29: 400 Gallons IP-4-24: 400 Gallons

IP-4-30: 400 Gallons IP-4-31: 400 Gallons

Deviations From Work Plan N/A

Comments IP-4-21 saw a decent amount of surfacing in the gravel lot area. Same areas as yesterday and in the past. Decided to abandon this point at 220 total gallons.Will finish the last 180 gallons in the morning.

Daily Products and Amounts Used

PlumeStop: 2220 lbs. AquiFix: 591 lbs.

S-MicroZVI: 591 lbs. BDI Plus: 2.5 Liters

Total Daily Volume Applied

2,220 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/30/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:40
			RRS Time Out 17:25

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Cole & Grady (Holt)

Ryne (Floyd Snider)

Completed Injection Points: 93 / 166

Total Percentage Complete: 56%

PlumeStop Total: 34,000 lbs.

S-MicroZVI Total: 11,200 lbs.

AquiFix Total: 10,400 lbs.

BDI Plus Total: 50.0 Liters

ON-SITE ACTIVITIES

7:40 - On-site / site cleanup

8:00 - Tailgate

8:15 - Drillers pulling IP from yesterday and setting new one for today

8:45 - Injections begin

9:00 - Surfacing

10:15 - Pumping at 1 gpm, moving product and equipment to Barrier 1 laydown area

13:00 - Injections complete. Doing deep clean trailer rinse and gathering up all gear to move to Barrier 1

15:35 - All equipment moved over. Marking and coring concrete IP's for Barrier 1

15:50 - Re-gathering all IP injection locations with GPS unit

17:00 - Nine IP's cored out. Will continue coring while injections occur next week / site cleanup

17:25 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	0	0	0	0.00	0	0	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	34,000	11,200	10,400	50.00	48,436	93	166

As of 10/30/2025

Injection Points (List each injection point with total gallons applied)

IP-4-21: 180 Gallons

Deviations From Work Plan N/A

Comments Still had some issues with surfacing in the gravel area while injecting on this IP. Trickled it in at 1 gpm while we prepped for work over in Barrier 1

All work to be done in Barrier 1 and TZ1/TZ2 is ready to go. Injections on Barrier 1 will begin in the morning with four IP's.

Daily Products and Amounts Used

PlumeStop: 180 lbs. AquiFix: 47 lbs.

S-MicroZVI: 47 lbs. BDI Plus: 0.18 Liters

Total Daily Volume Applied

180 Gallons

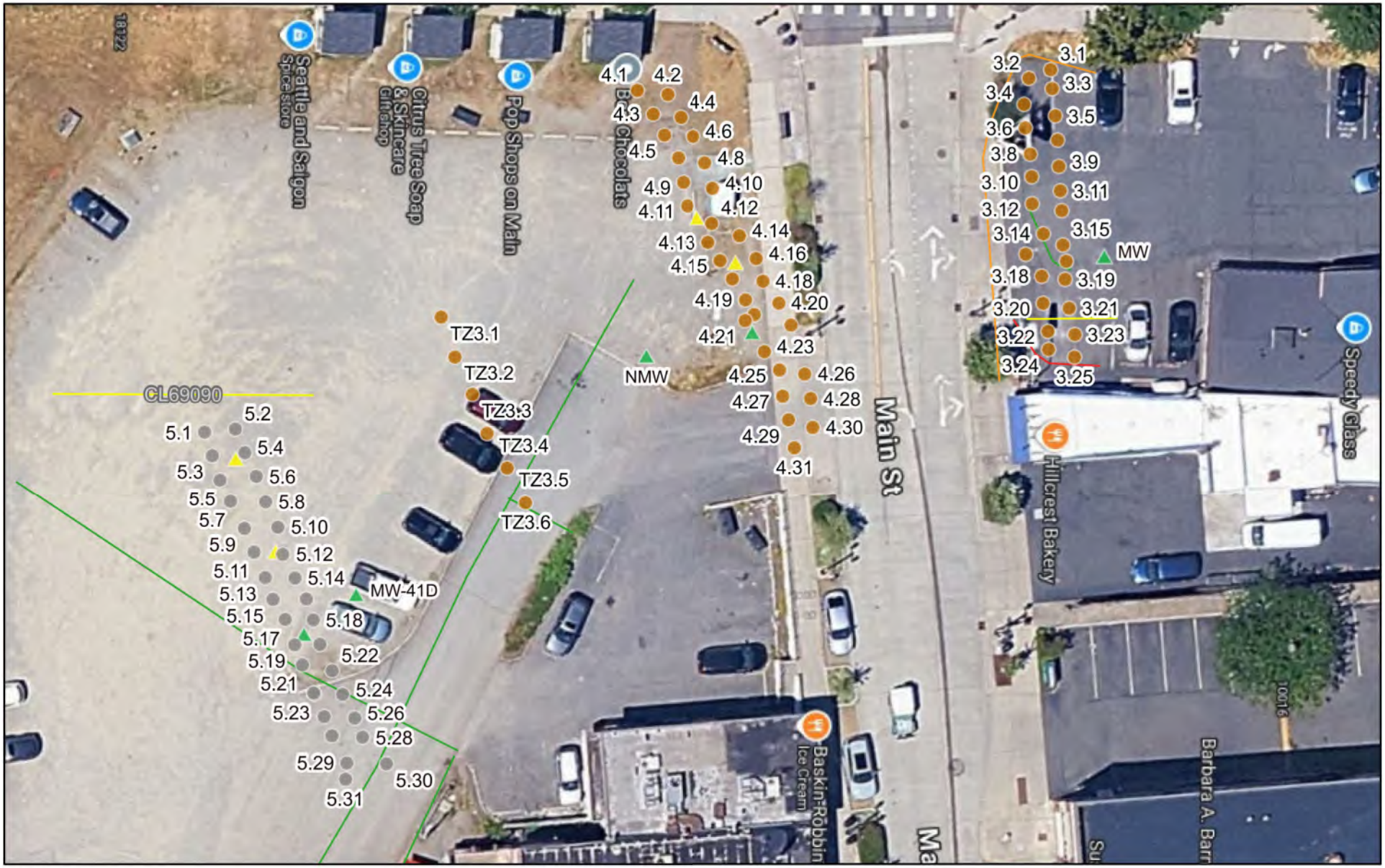
Product Inventory Check Completed

Yes	✓
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

Holt Services - Ultra Custom Care Cleaners - Injection Locations Map



Map Created By:
Spencer Lindgren
Thursday, October 30th, 2025

Completed Barriers 3, 4, 5 and Treatment Zone 3 Injection Point Locations

PS SMZVI Injection Point
PS SMZVI AquiFix Injection Point
Monitoring Wells
Piezometers
Gas
Sewer
Communications
Electric

1:615

0 12.5 25 50 ft
0 3.75 7.5 15 m

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REMEDIATION SERVICES

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Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 10/31/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:45
			RRS Time Out 15:30

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Cole & Grady (Holt)

Amy (Floyd Snider)

Completed Injection Points: 97 / 166

Total Percentage Complete: 58%

PlumeStop Total: 34,960 lbs.

S-MicroZVI Total: 11,328 lbs.

AquiFix Total: 10,400 lbs.

BDI Plus Total: 50.85 Liters

ON-SITE ACTIVITIES

7:45 - On-site / tailgate / site setup

8:30 - Drillers begin setting four IP's within Barrier 1

9:25 - Injections begin on four IP's

14:25 - Injections on four IP's complete / drillers pulling IP's / site cleanup

15:30 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	960	128	0	0.85	1,820	4	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	34,960	11,328	10,400	50.85	50,256	97	166

As of 10/31/2025

Injection Points (List each injection point with total gallons applied)

IP-1-12: 455 Gallons IP-1-20: 455 Gallons

IP-1-16: 455 Gallons IP-1-23: 455 Gallons

Deviations From Work Plan Barrier 1 was moved roughly 1.5ft up-gradient since a wall of concrete blocks limits GeoProbe rig access.

Comments Will be trying to inject 35 gallons per foot since we are in a new area. May readjust is problems arise in the future. But no issues today. Drillers wanted off around 15:00 today. Will attempt six to eight IP's on Monday.

Daily Products and Amounts Used

PlumeStop: 960 lbs. AquiFix: 0 lbs.

S-MicroZVI: 128 lbs. BDI Plus: 0.85 Liters

Total Daily Volume Applied

1,820 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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DAILY PROJECT SUMMARY

Date 11/3/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:45
			RRS Time Out 15:30

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Joe, Cole & Grady (Holt)

Kristin & Ryne (Floyd Snider)

Completed Injection Points: 101 / 166

Total Percentage Complete: 61%

PlumeStop Total: 35,920 lbs.

S-MicroZVI Total: 11,456 lbs.

AquiFix Total: 10,400 lbs.

BDI Plus Total: 52.56 Liters

ON-SITE ACTIVITIES

7:45 - On-site / site setup

9:00 - Holt on-site / tailgate with all personnel on-site

9:25 - Drillers begin setting four IP's in Barrier 1

10:00 - Injections begin

14:30 - Injections on all four IP's complete / drillers pull IP's / site cleanup

15:30 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	1,920	256	0	2.56	3,640	8	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	35,920	11,456	10,400	52.56	52,076	101	166

As of 11/3/2025

Injection Points (List each injection point with total gallons applied)

IP-1-3: 455 Gallons IP-1-11: 455 Gallons

IP-1-7: 455 Gallons IP-1-17: 455 Gallons

Deviations From Work Plan N/A

Comments Slight adjustment to total BDI reported. I reported 0.85 Liters used when it should be 1.28 Liters because the BDI is 1.5x concentrated. No issues injecting today. Drillers were mobing in this morning and their rig needs some maintenance so we could only do the one set.

Daily Products and Amounts Used

PlumeStop: 960 lbs. AquiFix: 0 lbs.

S-MicroZVI: 128 lbs. BDI Plus: 1.28 Liters

Total Daily Volume Applied

1,820 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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DAILY PROJECT SUMMARY

Date 11/4/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:15
			RRS Time Out 19:10

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Cole & Grady (Holt)

Ryne (Floyd Snider)

Completed Injection Points: 109 / 166

Total Percentage Complete: 66%

PlumeStop Total: 37,840 lbs.

S-MicroZVI Total: 11,712 lbs.

AquiFix Total: 10,400 lbs.

BDI Plus Total: 55.12 Liters

ON-SITE ACTIVITIES

7:15 - On-site / tailgate with Holt / Site setup

7:40 - Drillers start setting four IP's in Barrier 4

8:15 - Injections begin on the first four IP's

12:45 - Drillers start setting four new IP's

13:40 - Injections on first set of four IP's complete / start next set of four IP's

18:00 - Injections complete. Drillers pulling IP's / Site cleanup

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	3,840	512	0	5.12	7,280	16	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	37,840	11,712	10,400	55.12	55,716	109	166

As of 11/4/2025

Injection Points (List each injection point with total gallons applied)

IP-1-10: 455 Gallons IP-1-18: 455 Gallons IP-1-1: 455 Gallons IP-1-9: 455 Gallons

IP-1-13: 455 Gallons IP-1-22: 455 Gallons IP-1-5: 455 Gallons IP-1-21: 455 Gallons

Deviations From Work Plan N/A

Comments Every point had some surfacing at one point or another on the first set of four IP's. Managed to get all the product in though. Second set went fine with no issues at all

Daily Products and Amounts Used

PlumeStop: 1,920 lbs. AquiFix: 0 lbs.

S-MicroZVI: 256 lbs. BDI Plus: 2.56 Liters

Total Daily Volume Applied

3,640 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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DAILY PROJECT SUMMARY

Date 11/5/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:15
			RRS Time Out 18:45

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Cole & Grady (Holt)

Jake & Nikolai (Floyd Snider)

Completed Injection Points: 116 / 166

Total Percentage Complete: 70%

PlumeStop Total: 39,520 lbs.

S-MicroZVI Total: 11,936 lbs.

AquiFix Total: 10,400 lbs.

BDI Plus Total: 57.36 Liters

ON-SITE ACTIVITIES

7:15 - On-site / Tailgate with all personnel on-site / site setup

7:30 - Drillers begin setting three IP's in Barrier 1

8:10 - Injections begin on three IP's

12:00 - First set of three IP's completed / Pulling and setting a new set of two IP's / cored out two more concrete IP's

12:50 - Driller set both rods at an angle where the 54LT cannot lift it. Will set two more IP's so the 7822DT can lift the angled rods.

13:15 - Injections begin on four new bottom-up IP's in Barrier 1

18:00 - Injections complete. Drillers pulling IP's / site cleanup

18:45 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	5,520	736	0	7.36	10,465	23	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	39,520	11,936	10,400	57.36	58,901	116	166

As of 11/5/2025

Injection Points (List each injection point with total gallons applied)

IP-1-4: 455 Gallons IP-1-2: 455 Gallons IP-1-14: 455 Gallons

IP-1-8: 455 Gallons IP-1-6: 455 Gallons IP-1-15: 455 Gallons

IP-1-19: 455 Gallons

Deviations From Work Plan N/A

Comments Injections went well. Taping the rods seemed to help from surfacing through the annulus.
Only two IP's left in Barrier 1. Going to asses game plan tomorrow morning but we only have 48 IP's to complete after the last two IP's.

Daily Products and Amounts Used

PlumeStop: 1,680 lbs. AquiFix: 0 lbs.

S-MicroZVI: 224 lbs. BDI Plus: 2.24 Liters

Total Daily Volume Applied

3,185 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)



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DAILY PROJECT SUMMARY

Date 11/6/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 16:30

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Cole & Grady (Holt)

Nikolai (Floyd Snider)

Completed Injection Points: 118 / 166

Total Percentage Complete: 71%

PlumeStop Total: 40,000 lbs.

S-MicroZVI Total: 12,000 lbs.

AquiFix Total: 10,400 lbs.

BDI Plus Total: 58.0 Liters

ON-SITE ACTIVITIES

7:00 - On-site / tailgate with all personnel on-site

7:20 - Site setup / Move ecology block to access IP-1-25

7:45 - Drillers start setting last two IP's of Barrier 1

8:50 - Injections begin on Barrier 1

12:50 - Injections complete on Barrier 1 / Site cleanup and pre demob to Barrier 2

15:00 - Load up Holt's flatbed with empty totes and drums from Barrier 1 and move it back/offload it to Barrier 5 lay down yard

16:00 - Second check and finalize No Parking signs setup

16:30 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	0	0	0	0.00	0	0	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	40,000	12,000	10,400	58.00	59,811	118	166

As of 11/6/2025

Injection Points (List each injection point with total gallons applied)

IP-1-24: 455 Gallons

IP-1-25: 455 Gallons

Deviations From Work Plan N/A

Comments First IP we tried on had very high pressure and no flow. Assumed it was clogged or broken. Pulled it out and was broken, reset it with another bottom-up and worked fine.

Barrier 1 is complete. All empty product totes and drums were moved back to Barrier 5 lay down yard. No Parking signs, caution tape and delineators were placed in the area we plan on working in. One car is parked in the way as of right now though.

Daily Products and Amounts Used

PlumeStop: 480 lbs. AquiFix: 0 lbs.

S-MicroZVI: 64 lbs. BDI Plus: 0.64 Liters

Total Daily Volume Applied

910 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


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Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 11/7/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 16:00

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Cole & Grady (Holt)

Nikolai (Floyd Snider)

Completed Injection Points: 120 / 166

Total Percentage Complete: 72%

PlumeStop Total: 40,600 lbs.

S-MicroZVI Total: 12,000 lbs.

AquiFix Total: 10,580 lbs.

BDI Plus Total: 58.90 Liters

ON-SITE ACTIVITIES

7:00 - On-site / tailgate with Holt / Attach injection trailer

7:15 - Move trailer over to Barrier 2 lane way

8:00 - Stage trailer / site safety closure / drillers start setting three IP's in Barrier 2

9:15 - Injections begin

10:00 - After trying and resetting IP-2-5, it needs to be abandoned due to immediate surfacing. Needs to be moved. / Injections continue on other two IP's

15:05 - Injections complete, pulling IP's / site cleanup

16:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	600	0	180	0.90	1,400	2	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	40,600	12,000	10,580	58.90	61,211	120	166

As of 11/7/2025

Injection Points (List each injection point with total gallons applied)

IP-2-3: 646 Gallons

IP-2-4: 754 Gallons

Deviations From Work Plan N/A

Comments IP-2-5 failed immediately with a bottom-up screen. Reset it with a top-down and had the same issue. Need to move IP but needs to be hydravaced first

IP-2-3 begun surfacing from the cracks in the bricks about 2ft off of the active IP. Tried pumping at 0.4 GPM with no luck. Put the last 54 gallons into adjacent IP-2-4

Daily Products and Amounts Used

PlumeStop: 600 lbs. AquiFix: 180 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 0.9 Liters

Total Daily Volume Applied

1,400 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
REMEDIATION SERVICES
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DAILY PROJECT SUMMARY

Date 11/10/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:45
			RRS Time Out 19:00

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Louie & Grady (Holt)

Nikolai (Floyd Snider)

Completed Injection Points: 124 / 166

Total Percentage Complete: 75%

PlumeStop Total: 42,700 lbs.

S-MicroZVI Total: 12,000 lbs.

AquiFix Total: 11,210 lbs.

BDI Plus Total: 61.96 Liters

ON-SITE ACTIVITIES

7:45 - On-site / Site traffic shutdown

8:00 - Site setup

9:10 - Drillers on-site / start drilling IP's

10:00 - Injections in the road way begin

11:00 - Injections begin in sidewalk and garden bed

16:40 - IP's in roadway abandoned due to excessive surfacing.

18:00 - Injections for the day complete / site cleanup

19:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	2,700	0	810	3.96	3,850	6	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	42,700	12,000	11,210	61.96	63,661	124	166

As of 11/10/2025

Injection Points (List each injection point with total gallons applied)

IP-2-1/2: 535 Gallons IP-1-9/10: 746 Gallons

IP-2-6/7: 515 Gallons IP-9/11: 654 Gallons

Deviations From Work Plan N/A

Comments Surfacing from the cracks between bricks in the laneway. Even when pumping slow. Need to finish the two laneway IP's in the morning.

Daily Products and Amounts Used

PlumeStop: 2,100 lbs. AquiFix: 630 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 3.06 Liters

Total Daily Volume Applied

2,450 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 11/11/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:00
			RRS Time Out 18:45

On-Site Personnel (Name and Firm)

Spencer & Justin (RRS)

Louie & Grady (Holt)

Nikolai (Floyd Snider)

Completed Injection Points: 130 / 166

Total Percentage Complete: 78%

PlumeStop Total: 43,600 lbs.

S-MicroZVI Total: 12,000 lbs.

AquiFix Total: 11,480 lbs.

BDI Plus Total: 63.40 Liters

ON-SITE ACTIVITIES

7:00 - On-site / site setup

7:30 - Tailgate with all personnel on-site / begin injections on the two IP's from the day before.

8:30 - Drillers begin setting last two available IP's we can access in Barrier 2

9:30 - Injections complete on partial IP's / begin new set of two IP's in Barrier 2

18:00 - Injections complete / site cleanup

18:45 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	3,600	0	1,080	5.40	5,120	12	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	0	0	0.00	0	0	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	43,600	12,000	11,480	63.40	64,931	130	166

As of 11/11/2025

Injection Points (List each injection point with total gallons applied)

IP-2-1/2: 125 Gallons IP-2-5: 500 Gallons

IP-2-6/7: 145 Gallons IP-2-8: 500 Gallons

Deviations From Work Plan For the remaining volume of IP-2-1/2 & 2-6/7, the amount of water was reduced in the mix tanks to inject 25 gallons per foot in the hope of reducing surfacing. IP-2-5 & 2-8 were also reduced in the amount of mix water used to 25 gallons per foot as well. Same amount of product per interval, just less water.

Comments Lots of surfacing in the brick lane way area again. Seems to be running in between the bricks and top layer of 4" of sand. Gravel below.

Daily Products and Amounts Used

PlumeStop: 750 lbs. AquiFix: 225 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 1.44 Liters

Total Daily Volume Applied

1,270 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

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REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 11/12/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:30
			RRS Time Out 17:00

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Amy (Floyd Snider)

Completed Injection Points: 134 / 166

Total Percentage Complete: 81%

PlumeStop Total: 43,600 lbs.

S-MicroZVI Total: 12,500 lbs.

AquiFix Total: 12,680 lbs.

BDI Plus Total: 68.40 Liters

ON-SITE ACTIVITIES

7:30 - On-site / move equipment over to Barrier 1 laydown yard to begin work in Treatment Zone 1&2

9:00 - Assist Holt with setting up traffic control

9:45 - Drillers begin setting four IP's in TZ-2 / Starting IP's once they are set.

10:35 - All IP's have been started

15:15 - Injections on all four IP's complete. Pulling IP's / Site cleanup

17:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	3,600	0	1,080	5.40	5,120	12	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	0	0	0.00	0	0	4
TZ-2	0	500	1,200	5.00	2,160	4	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	43,600	12,500	12,680	68.40	67,091	134	166

As of 11/12/2025

Injection Points (List each injection point with total gallons applied)

TZ-2-1: 540 Gallons TZ-2-3: 540 Gallons

TZ-2-2: 540 Gallons TZ-2-4: 540 Gallons

Deviations From Work Plan N/A

Comments IP-TZ-2-1 begun surfacing from the rod annulus at about 300 gallons. It was decided to pull this IP and reset it about 2ft up-gradient of it's current location. Worked fine.

**Attached below is the GPS map of work done in Barrier 2

Daily Products and Amounts Used

PlumeStop: 0 lbs. AquiFix: 1,200 lbs.

S-MicroZVI: 500 lbs. BDI Plus: 5.0 Liters

Total Daily Volume Applied

2,160 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

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DAILY PROJECT SUMMARY

Date 11/13/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 7:30
			RRS Time Out 16:30

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Ryne (Floyd Snider)

Completed Injection Points: 138 / 166

Total Percentage Complete: 83%

PlumeStop Total: 43,600 lbs.

S-MicroZVI Total: 13,000 lbs.

AquiFix Total: 13,880 lbs.

BDI Plus Total: 72.4 Liters

ON-SITE ACTIVITIES

7:30 - On-site / tailgate

8:00 - Site setup

9:00 - Traffic control setup / start drilling four IP's for TZ-1

9:10 - Rolling injections start

9:50 - All injections going

12:00 - TZ-1-3 kept surfacing. Pulling and resetting IP

14:40 - All IP's completed. Pulling IP's / Site cleanup

16:30 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	3,600	0	1,080	5.40	5,120	12	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	500	1,200	4.00	1,980	4	4
TZ-2	0	500	1,200	5.00	2,160	4	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	43,600	13,000	13,880	72.40	69,071	138	166

As of 11/13/2025

Injection Points (List each injection point with total gallons applied)

TZ-1-1: 495 Gallons TZ-1-3: 495 Gallons

TZ-1-2: 495 Gallons TZ-1-4: 495 Gallons

Deviations From Work Plan N/A

Comments Same issue as yesterday with a leaky IP from rod annulus (TZ-1-3) at roughly 300 total gallons. Decided to just pull and reset IP up-gradient a foot.

Daily Products and Amounts Used

PlumeStop: 0 lbs. AquiFix: 1,200 lbs.

S-MicroZVI: 500 lbs. BDI Plus: 4.0 Liters

Total Daily Volume Applied

1,980 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
1.10
1.11
1.12
1.13
1.14
1.15
1.16
1.17
1.18
1.19
1.20
1.21
1.22
1.23
1.24
1.25
TZ1.1
TZ1-2
TZ1.3
TZ1.4
TZ-2.1
TZ-2.1
TZ-2.2
TZ-2.3
TZ-2.4
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DAILY PROJECT SUMMARY

Date 11/16-17/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 21:15
			RRS Time Out 8:30

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Kristin & Amy (Floyd Snider)

Completed Injection Points: 142 / 166

Total Percentage Complete: 86%

PlumeStop Total: 44,800 lbs.

S-MicroZVI Total: 13,000 lbs.

AquiFix Total: 14,240 lbs.

BDI Plus Total: 74.20 Liters

ON-SITE ACTIVITIES

21:15 - On-site / Attach trailer and prep for mob to Barrier 2 work area

22:30 - Move trailer over to Speedy Glass property / begin site setup

23:00 - Shut down traffic lanes, begin moving equipment to Ranch area / Drillers begin setting four IP's in Barrier 2

00:15 - Injections begin

00:40 - Two IP's immediately surfacing. Pulling and resetting them.

7:30 - Injections complete / site cleanup / demob

8:30 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	4,800	0	1,440	7.20	7,920	16	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	500	1,200	4.00	1,980	4	4
TZ-2	0	500	1,200	5.00	2,160	4	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	44,800	13,000	14,240	74.20	71,871	142	166

As of 11/17/2025

Injection Points (List each injection point with total gallons applied)

IP-2-15: 700 Gallons IP-2-22: 700 Gallons

IP-2-18: 700 Gallons IP-2-25: 700 Gallons

Deviations From Work Plan N/A

Comments Decent amount of surfacing from rod annulus' tonight. The two failed IP's would immediately surface from the annulus. Even packing bentonite didn't work

There was a decent amount of surfacing from MW-38 casing as well. Tried sealing hole with bentonite but no luck. Drillers need to seal casing with concrete.

Daily Products and Amounts Used

PlumeStop: 1,200 lbs. AquiFix: 360 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 1.8 Liters

Total Daily Volume Applied

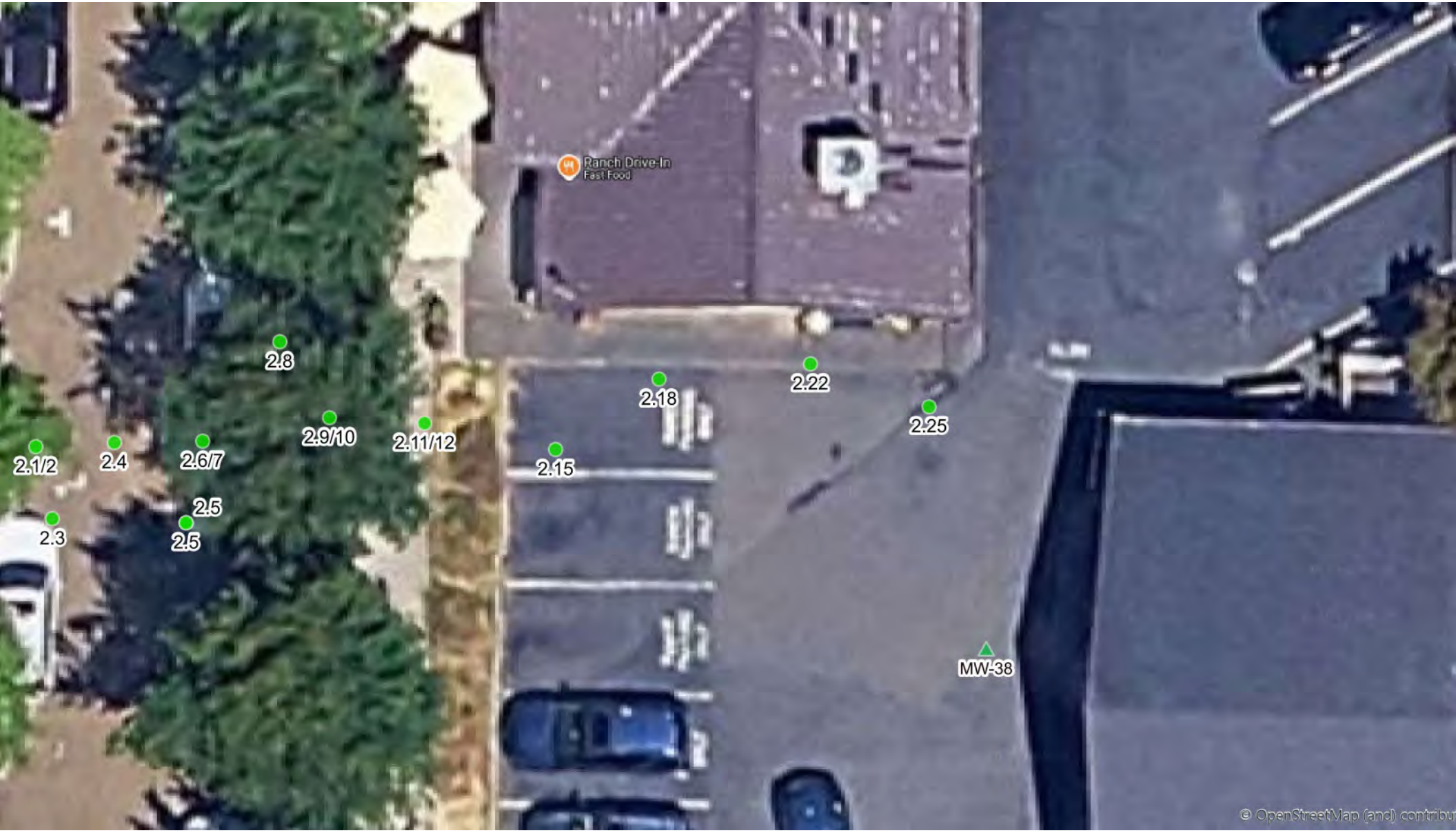
2,800 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


Ranch Drive-In
Fast Food
2.8
2.9/10
2.11/12
2.6/7
2.4
2.1/2
2.5
2.5
2.3
2.15
2.18
2.22
2.25
MW-38
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DAILY PROJECT SUMMARY

Date 11/17-18/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 21:25
			RRS Time Out 7:30

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Nikolai & Amy (Floyd Snider)

Completed Injection Points: 145 / 166

Total Percentage Complete: 87%

PlumeStop Total: 45,820 lbs.

S-MicroZVI Total: 13,000 lbs.

AquiFix Total: 14,546 lbs.

BDI Plus Total: 75.73 Liters

ON-SITE ACTIVITIES

21:25 - On-site / load up trailer and move it to Speedy Glass Property

22:00 - Begin site closure and equipment mob

22:15 - Drillers begin setting four top-down tools in Barrier 2

22:50 - Injections begin / Surfacing from MW-29 and lid bolts are stripped. Working on a way in / J-plug not tight. Fixed now, resume pumping

2:20 - Immediate and constant surfacing from 3 of 4 IP's keep surfacing in the same area. Cracks in the pavement beside MW-29. All 3 IP's need to be reset and redosed to 50gpf

3:00 - IP-2-34 abandoned due to surfacing. Need to redistribute volume, see comments.

6:05 - Injections complete / site cleanup

7:30 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	5,820	0	1,746	8.73	7,920	19	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	500	1,200	4.00	1,980	4	4
TZ-2	0	500	1,200	5.00	2,160	4	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	45,820	13,000	14,546	75.73	71,871	145	166

As of 11/18/2025

Injection Points (List each injection point with total gallons applied)

IP-2-31: 580 Gallons

IP-2-34: 280 Gallons

IP-2-37: 580 Gallons

IP-2-40: 580 Gallons

Deviations From Work Plan Change to 50 gallons per foot due to constant surfacing in the same area and constant surfacing from the night before.

Comments Could not find an appropriate location for IP-2-34 to be relocated due to a sewer line, dumpster/property line, surfacing area & monitoring well. Remaining volume will be redirected to IP's-2-33 & 2-35.

Daily Products and Amounts Used

PlumeStop: 1,020 lbs. AquiFix: 306 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 1.53 Liters

Total Daily Volume Applied

2,020 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


Ranch Drive-In
Fast Food
2.35
2.40
2.31
2.34
2.8
2.22
2.18
2.25
2.9/10
2.11/12
2.1/2
2.4
2.6/7
2.15
2.5
2.3
2.5
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DAILY PROJECT SUMMARY

Date 11/18-19/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 21:00
			RRS Time Out 7:00

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Ryne & Amy (Floyd Snider)

Completed Injection Points: 149 / 166

Total Percentage Complete: 90%

PlumeStop Total: 47,020 lbs.

S-MicroZVI Total: 13,000 lbs.

AquiFix Total: 14,906 lbs.

BDI Plus Total: 77.53 Liters

ON-SITE ACTIVITIES

21:00 - On-site / prepare mob to Barrier 2

2:00 - Begin site closure / site setup

22:15 - Drillers begin drilling four IP's in Barrier 2

22:35-23:00 - Begin rolling IP's / all IP's running

4:45 - Injections complete / site cleanup

6:00 - All equipment off site and back in nightly lay-down yard / injection trailer maintenance

7:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	7,020	0	2,106	10.53	9,920	23	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	500	1,200	4.00	1,980	4	4
TZ-2	0	500	1,200	5.00	2,160	4	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	47,020	13,000	14,906	77.53	73,871	149	166

As of 11/19/2025

Injection Points (List each injection point with total gallons applied)

IP-2-13: 500 Gallons IP-2-19: 500 Gallons

IP-2-16: 500 Gallons IP-2-23: 500 Gallons

Deviations From Work Plan Started IP's off at 500-gallons total at 50 gallons per foot.

Comments All IP's experienced surfacing from the rod annulus for most of the night. Needed to repack bentonite every single time we advanced rods but was manageable

Also saw surfacing from cracks in the pavement, curb and sewer pothole patches (7, 8 & 21ft away). More than likely need to lower GPF once again

Daily Products and Amounts Used

PlumeStop: 1200 lbs. AquiFix: 360 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 1.8 Liters

Total Daily Volume Applied

2,000 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


Ranch Drive-In
Fast Food
2.35
2.40
2.31
2.34
2.8
2.22
2.18
2.16
2.25
2.9/10
2.11/12
2.23
2.1/2
2.4
2.6/7
2.19
2.15
2.13
2.3
2.5
MW-38
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DAILY PROJECT SUMMARY

Date 11/19-20/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 21:00
			RRS Time Out 7:00

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Ryne & Kristin (Floyd Snider)

Completed Injection Points: 153 / 166

Total Percentage Complete: 92%

PlumeStop Total: 48,220 lbs.

S-MicroZVI Total: 13,000 lbs.

AquiFix Total: 15,226 lbs.

BDI Plus Total: 79.33 Liters

ON-SITE ACTIVITIES

21:00 - On-site / finish trailer maintenance

22:00 - Move equipment over to Barrier 2 injection area

22:30 - Drillers begin setting four IP's in Barrier 2

23:15 - Injections begin

4:05 - Some surfacing from sewer pothole surface again. Managing it but still an issue.

5:45 - Injections complete / site cleanup

7:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	8,220	0	2,466	12.33	11,920	27	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	500	1,200	4.00	1,980	4	4
TZ-2	0	500	1,200	5.00	2,160	4	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	48,220	13,000	15,266	79.33	75,871	153	166

As of 11/20/2025

Injection Points (List each injection point with total gallons applied)

IP-2-14: 500 Gallons IP-2-24: 500 Gallons

IP-2-20: 500 Gallons IP-2-27: 500 Gallons

Deviations From Work Plan N/A

Comments Injections went well tonight. There was no surfacing until we got to the last two intervals of IP-2-14. Once we got to the upper treatment zone, product begun finding its way to the sewer pothole locates again. Slowed pump and it helped but there was still product finding its way.

Daily Products and Amounts Used

PlumeStop: 1200 lbs. AquiFix: 360 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 1.8 Liters

Total Daily Volume Applied

2,000 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


Ranch Drive-In
Fast Food
2.35
2.40
2.31
2.34
2.8
2.22
2.24
2.18
2.20
2.27
2.16
2.14
2.25
2.9/10
2.11/12
2.23
2.4
2.6/7
2.19
2.15
2.13
2.5
MW-38
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DAILY PROJECT SUMMARY

Date 11/20-21/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 21:00
			RRS Time Out 7:00

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Lydia & Kristin (Floyd Snider)

Completed Injection Points: 157 / 166

Total Percentage Complete: 93%

PlumeStop Total:	49,510 lbs.
S-MicroZVI Total:	13,000 lbs.
AquiFix Total:	15,653 lbs.
BDI Plus Total:	81.27 Liters

ON-SITE ACTIVITIES

21:00 - On-site / prep

22:00 - Begin staging equipment in Barrier 2 area

22:50 - Injections begin

23:20 - IP-2-33 immediately started surfacing and by 30 gallons was not manageable. Need to reset IP up-gradient a few feet to get away from this trouble area as this IP requires extra volume from abandoned IP-2-34

00:50 - Changing concentration to 15 gallons per foot. Same amount of product per IP but reduced amount of mix water used.

5:40 - Injections complete / site cleanup

7:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	9,510	0	2,853	14.27	13,410	31	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	500	1,200	4.00	1,980	4	4
TZ-2	0	500	1,200	5.00	2,160	4	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	49,510	13,000	15,653	81.27	77,361	157	166

As of 11/21/2025

Injection Points (List each injection point with total gallons applied)

IP-2-30: 340 Gallons IP-2-36: 340 Gallons

IP-2-33: 470 Gallons IP-2-39: 340 Gallons

Deviations From Work Plan Early on in the injections it was decided to reduce volume to 15 gallons per foot because the amount of surfacing was excessive. IP-2-33 is receiving extra volume from IP-2-34.

Comments All IP's in this area are showing signs of surfacing from the cracks in the asphalt near MW-29. Couldn't really pin point which IP was causing it since product would begin surfacing even after the pump had been off for a couple minutes.

Daily Products and Amounts Used

PlumeStop: 1,290 lbs. AquiFix: 387 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 1.94 Liters

Total Daily Volume Applied

1,490 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 11/21-22/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 21:45
			RRS Time Out 7:00

On-Site Personnel (Name and Firm)

Spencer & Thomas (RRS)

Louie & Grady (Holt)

Ryne & Kristin (Floyd Snider)

Completed Injection Points: 162 / 166

Total Percentage Complete: 98%

PlumeStop Total: 50,800 lbs.

S-MicroZVI Total: 13,000 lbs.

AquiFix Total: 16,040 lbs.

BDI Plus Total: 83.20 Liters

ON-SITE ACTIVITIES

21:45 - On-site / begin prep

22:30 - Move equipment to Barrier 2

23:05 - Drillers begin setting four IP's in Barrier 2

23:40 - Injections begin

00:30 - RRS begins flushing all MW's down-gradient of Barrier 2

05:40 - Injections Complete / site cleanup

7:00 - Off-site

AREA	PlumeStop (lbs.)	S-MicroZVI (lbs.)	AquiFix (lbs.)	BDI (Liters)	Mix Injected (Gallons)	IP's Complete	Amount of IP's
Barrier 1	6,000	800	0	8.00	11,375	25	25
Barrier 2	10,800	0	3,240	16.20	14,700	36	40
Barrier 3	11,600	3,100	3,100	13.00	14,375	25	25
Barrier 4	12,400	3,300	3,300	14.00	12,520	31	31
Barrier 5	10,000	3,300	0	14.00	17,341	31	31
TZ-1	0	500	1,200	4.00	1,980	4	4
TZ-2	0	500	1,200	5.00	2,160	4	4
TZ-3	0	1,500	4,000	9.00	4,200	6	6
TOTAL	50,800	13,000	16,040	83.20	78,651	162	166

As of 11/22/2025

Injection Points (List each injection point with total gallons applied)

IP-2-17: 300 Gallons IP-2-32: 300 Gallons

IP-2-21: 300 Gallons IP-2-35: 390 Gallons

Deviations From Work Plan Extra 90 gallons (90 lbs. PlumeStop and 27 lbs. AquiFix from 2-34) to 2-35.

Comments Only surfacing to occur tonight was from the rod annulus'. Every interval, a seal around the annulus at the surface needed to be re packed

Daily Products and Amounts Used

PlumeStop: 1,290 lbs. AquiFix: 387 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 1.94 Liters

Total Daily Volume Applied

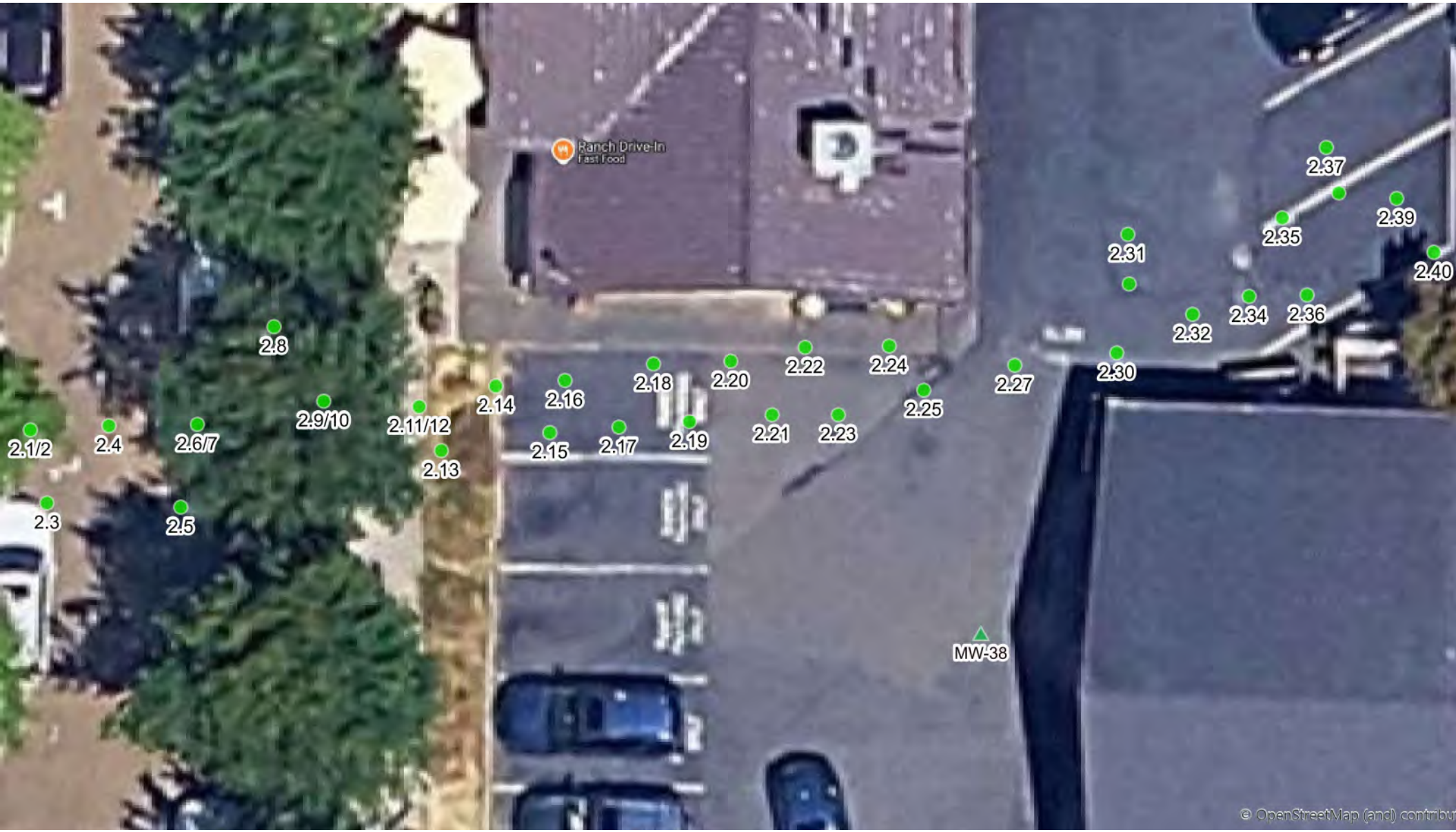
1,290 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)


Ranch Drive-In
Fast Food
2.1/2
2.3
2.4
2.5
2.6/7
2.8
2.9/10
2.11/12
2.13
2.14
2.15
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2.36
2.37
2.39
2.40
MW-38
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REGENESIS
REMEDIATION SERVICES
Technology-Based Solutions for the Environment

DAILY PROJECT SUMMARY

Date 11/22-23/2025	**Client** Holt Services	**RRS Supervisor** Spencer Lindgren	
Project Name Ultra Custom Care Cleaners	**Client Representative** Joe Rounds	**RRS Project Manager** Isaac Gregg	
Address 18140 Bothell Way NE Bothell, Washington 98011		**Truck/Trailer #** TR-15 / TL-14	**RRS Time In** 21:00
			RRS Time Out 9:30

On-Site Personnel (Name and Firm)

Spencer (RRS)

Louie & Grady (Holt)

Ryne & Kristin (Floyd Snider)

Completed Injection Points:	166 / 166
Total Percentage Complete:	100%

PlumeStop Total:	52,000 lbs.
S-MicroZVI Total:	13,000 lbs.
AquiFix Total:	16,400 lbs.
BDI Plus Total:	85.0 Liters

ON-SITE ACTIVITIES

21:00 - On-site / tailgate with all personnel on-site

22:00 - Begin site setup

23:00 - Drillers begin setting last four IP's in Barrier 2

23:50 - Injections begin (Immediate surfacing on IP-2-26. Need to reset IP)

3:00 - Begin prep to finish flushing remaining MW's

5:50 - All injections complete. All IP's complete. Project is 100% complete on IP's finished / begin site cleanup and closure

8:00 - All equipment moved off-site. Finalize cleaning up site closure.

9:30 - Off-site

Injection Points (List each injection point with total gallons applied)

IP-2-26: 300 Gallons IP-2-29: 300 Gallons

IP-2-28: 300 Gallons IP-2-38: 300 Gallons

Deviations From Work Plan N/A

Comments Injections went well. Some back pressure when lifting rods and some IP's surfaced from borehole. But was easily mitigated by repacking bentonite 15 gallons per foot seemed to be much easier to manage.

Daily Products and Amounts Used

PlumeStop: 1,200 lbs. AquiFix: 360 lbs.

S-MicroZVI: 0 lbs. BDI Plus: 1.8 Liters

Total Daily Volume Applied

1,200 Gallons

Product Inventory Check Completed

Yes	✔
No	

Supervisor Signature Spencer Lindgren

Client Representative (Name/Signature)

Appendix B: Injection Logs

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #1
Appendix B: Table 1

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-1-1	11/4/2025	14:10	9-11	13.7	2.5	0.0	70.0	70.0	5	37	0	455	32	240	0	0.025		2-Foot Exposed Port
	11/4/2025	15:12	11-13	40.5	3.2	70.0	140.0	70.0	5	37	0					0.049		
	11/4/2025	15:40	13-15	21.4	3.3	140.0	210.0	70.0	5	37	0					0.049		
	11/4/2025	16:22	15-17	17.6	3.2	210.0	280.0	70.0	5	37	0					0.049		
	11/4/2025	16:55	17-19	25.9	3.3	280.0	350.0	70.0	5	37	0					0.049		
	11/4/2025	17:31	19-21	27.3	3.2	350.0	402.5	52.5	4	28	0					0.049		
	11/4/2025	17:55	21-23	41.9	3.2	402.5	455.0	52.5	4	28	0					0.049	Only a 1ft push and a bit of a volume redirect since the top-down tool cannot do 1ft intervals like the bottom-up screen	
IP-1-2	11/5/2025	13:35	22-21	36.3	2.1	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025	Driler drilled the IP on a wicked angle. The 54LT cannot lift this rod	2-Foot Screen
	11/5/2025	14:01	21-19	24.3	2.6	35.0	105.0	70.0	5	37	0					0.049		
	11/5/2025	14:43	19-17	16.3	2.7	105.0	175.0	70.0	5	37	0					0.049		
	11/5/2025	15:14	17-15	8.3	2.8	175.0	245.0	70.0	5	37	0					0.049		
	11/5/2025	15:40	15-13	9.3	2.7	245.0	315.0	70.0	5	37	0					0.049		
	11/5/2025	16:16	13-11	7.4	2.7	315.0	385.0	70.0	5	37	0					0.049		
	11/5/2025	17:30	11-9	4.2	2.6	385.0	455.0	70.0	5	37	0					0.049		
IP-1-3	11/3/2025	10:11	22-21	32.3	2.3	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/3/2025	10:54	21-19	23.2	2.9	35.0	105.0	70.0	5	37	0					0.049		
	11/3/2025	11:31	19-17	17.4	3.2	105.0	175.0	70.0	5	37	0					0.049		
	11/3/2025	12:05	17-15	18.7	3.1	175.0	245.0	70.0	5	37	0					0.049		
	11/3/2025	12:40	15-13	14.2	3.4	245.0	315.0	70.0	5	37	0					0.049		
	11/3/2025	13:19	13-11	12.6	3.4	315.0	385.0	70.0	5	37	0					0.049		
	11/3/2025	14:05	11-9	2.5	2.6	385.0	455.0	70.0	5	37	0					0.049		
IP-1-4	11/5/2025	8:36	9-11	24.4	3.2	0.0	70.0	70.0	5	37	0	455	32	240	0	0.025		2-Foot Exposed Port
	11/5/2025	9:05	11-13	14.4	3.2	70.0	140.0	70.0	5	37	0					0.049		
	11/5/2025	9:35	13-15	21.2	3.2	140.0	210.0	70.0	5	37	0					0.049		
	11/5/2025	10:11	15-17	20.6	3.3	210.0	280.0	70.0	5	37	0					0.049		
	11/5/2025	10:41	17-19	26.3	3.3	280.0	350.0	70.0	5	37	0					0.049		
	11/5/2025	11:18	19-21	49.3	3.2	350.0	402.5	52.5	4	28	0					0.049		
	11/5/2025	11:54	21-23	7.3	2.6	402.5	455.0	52.5	4	28	0					0.049		
IP-1-5	11/4/2025	14:10	9-11	4.5	2.4	0.0	70.0	70.0	5	37	0	455	32	240	0	0.025		2-Foot Exposed Port
	11/4/2025	15:11	11-13	23.5	3.3	70.0	140.0	70.0	5	37	0					0.049		
	11/4/2025	15:40	13-15	22.2	3.3	140.0	210.0	70.0	5	37	0					0.049		
	11/4/2025	16:23	15-17	32.4	3.2	210.0	280.0	70.0	5	37	0					0.049		
	11/4/2025	16:55	17-19	21.4	3.3	280.0	350.0	70.0	5	37	0					0.049		
	11/4/2025	17:31	19-21	25.8	3.3	350.0	402.5	52.5	4	28	0					0.049		
	11/4/2025	17:55	21-23	24.2	3.2	402.5	455.0	52.5	4	28	0					0.049	Only a 1ft push and a bit of a volume redirect since the top-down tool cannot do 1ft intervals like the bottom-up screen	
IP-1-6	11/5/2025	13:35	22-21	46.1	2.2	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025	Driler drilled the IP on a wicked angle. The 54LT cannot lift this rod	2-Foot Screen
	11/5/2025	14:01	21-19	23.6	2.7	35.0	105.0	70.0	5	37	0					0.049		
	11/5/2025	14:43	19-17	26.1	2.8	105.0	175.0	70.0	5	37	0					0.049		
	11/5/2025	15:13	17-15	12.3	2.8	175.0	245.0	70.0	5	37	0					0.049		
	11/5/2025	15:40	15-13	16.3	2.8	245.0	315.0	70.0	5	37	0					0.049		
	11/5/2025	16:16	13-11	8.9	2.7	315.0	385.0	70.0	5	37	0					0.049		
	11/5/2025	17:30	11-9	4.6	2.6	385.0	455.0	70.0	5	37	0					0.049	Minor surfacing from rod annulus. Repacked with bentonite	
IP-1-7	11/3/2025	10:11	22-21	47.2	2.4	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/3/2025	10:54	21-19	27.5	3.0	35.0	105.0	70.0	5	37	0					0.049		
	11/3/2025	11:31	19-17	25.4	3.1	105.0	175.0	70.0	5	37	0					0.049		
	11/3/2025	12:05	17-15	7.9	3.1	175.0	245.0	70.0	5	37	0					0.049		
	11/3/2025	12:40	15-13	7.8	3.4	245.0	315.0	70.0	5	37	0					0.049		
	11/3/2025	13:19	13-11	9.1	3.5	315.0	386.0	71.0	5	37	0					0.049		
	11/3/2025	14:06	11-9	3.4	2.6	386.0	455.0	69.0	5	36	0					0.049		
IP-1-8	11/5/2025	8:36	9-11	13.3	3.2	0.0	70.0	70.0	5	37	0	455	32	240	0	0.025		2-Foot Exposed Port
	11/5/2025	9:05	11-13	32.5	3.2	70.0	140.0	70.0	5	37	0					0.049		
	11/5/2025	9:35	13-15	21.9	3.2	140.0	210.0	70.0	5	37	0					0.049		
	11/5/2025	10:11	15-17	27.3	3.3	210.0	280.0	70.0	5	37	0					0.049		
	11/5/2025	10:41	17-19	22.4	3.4	280.0	350.0	70.0	5	37	0					0.049		
	11/5/2025	11:18	19-21	28.6	3.2	350.0	402.5	52.5	4	28	0					0.049		
	11/5/2025	11:54	21-23	32.7	2.7	402.5	455.0	52.5	4	28	0					0.049		
IP-1-9	11/4/2025	8:31	22-21	185.0	0.4	0.0	10.0	10.0	1	5	0	455	32	240	0	-	Likely tight lithology / screen not being open the full 2ft.	2-Foot Screen
	11/4/2025	8:46	21-19	202.0	0.3	10.0	10.0	0.0	0	0	0					-	Lifted 2ft early to see if IP starts flowing. Still high pressure and no flow. Resetting IP. After pulling IP, screen was open but filled with sand. Tried again and immediatley failed. There must be a heaving sands pocket in here. Going to pull and reset with a top-down tool on IP-1-10.	
	11/4/2025	14:27	9-11	3.2	2.5	0.0	70.0	70.0	5	37	0					0.025		2-Foot Exposed Port
	11/4/2025	15:11	11-13	7.1	3.3	70.0	140.0	70.0	5	37	0					0.049		
	11/4/2025	15:40	13-15	9.9	3.4	140.0	210.0	70.0	5	37	0					0.049		
	11/4/2025	16:23	15-17	11.7	3.3	210.0	280.0	70.0	5	37	0					0.049		
	11/4/2025	16:55	17-19	16.5	3.3	280.0	350.0	70.0	5	37	0					0.049		
	11/4/2025	17:32	19-21	12.4	3.3	350.0	402.5	52.5	4	28	0					0.049		
	11/4/2025	17:54	20-22	15.5	3.2	402.5	445.0	42.5	3	22	0					0.049	Only a 1ft push and a bit of a volume redirect since the top-down tool cannot do 1ft intervals like the bottom-up screen	
IP-1-10	11/4/2025	9:29	9-11	24.8	2.6	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Exposed Port
	11/4/2025	9:58	11-13	16.5	3.2	35.0	105.0	70.0	5	37	0					0.049		
	11/4/2025	10:39	13-15	12.8	3.3	105.0	175.0	70.0	5	37	0					0.049		
	11/4/2025	11:36	15-17	12.2	3.1	175.0	245.0	70.0	5	37	0					0.049		
	11/4/2025	12:29	17-19	5.3	2.9	245.0	315.0	70.0	5	37	0					0.049		
	11/4/2025	12:56	19-21	11.4	3.3	315.0	385.0	70.0	5	37	0					0.049		
	11/4/2025	13:24	21-23	12.1	3.1	385.0	455.0	70.0	5	37	0					0.049		
IP-1-11	11/3/2025	10:11	22-21	10.4	2.4	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/3/2025	10:54	21-19	8.6	2.9	35.0	105.0	70.0	5	37	0					0.049		
	11/3/2025	11:31	19-17	8.1	3.1	105.0	175.0	70.0	5	37	0					0.049		
	11/3/2025	12:05	17-15	4.1	3.2	175.0	245.0	70.0	5	37	0					0.049		
	11/3/2025	12:40	15-13	5.7	3.4	245.0	315.0	70.0	5	37	0					0.049		
	11/3/2025	13:19	13-11	7.1	3.5	315.0	387.0	72.0	5	38	0					0.049		
	11/3/2025	14:06	11-9	7.1	2.5	387.0	455.0	68.0	5	36	0					0.049		
IP-1-12	10/31/2025	9:38	22-21	28.4	2.3	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	10/31/2025	10:11	21-19	19.3	3.0	35.0	105.0	70.0	5	37	0					0.049		
	10/31/2025	10:53	19-17	8.1	3.1	105.0	175.0	70.0	5	37	0					0.049		
	10/31/2025	11:47	17-15	20.4	3.1	175.0	245.0	70.0	5	37	0					0.049		
	10/31/2025	12:12	15-13	11.1	3.5	245.0	315.0	70.0	5	37	0					0.049		
	10/31/2025	13:06	13-11	13.5	3.3	315.0	385.0	70.0	5	37	0					0.049		
	10/31/2025	13:56	11-9	8.9	2.7	385.0	455.0	70.0	5	37	0					0.049		
IP-1-13	11/4/2025	8:32	22-21	174.0	0.5	0.0	9.0	9.0	1	5	0	455	32	240	0	-	Likely tight lithology / screen not being open the full 2ft.	2-Foot Screen
	11/4/2025	8:45	21-19	200.0	0.3	9.0	9.0	0.0	0	0	0					-	Lifted 2ft early to see if IP starts flowing. Still high pressure and no flow. Resetting IP. After pulling IP, screen did not open.	
	11/4/2025	9:04	22-21	6.8	2.2	9.0	35.0	26.0	2	14	0					0.025	Flowing	
	11/4/2025	9:41	21-19	7.7	3.1	35.0	105.0	70.0	5	37	0					0.049		
	11/4/2025	10:02	19-17	8.7	3.2	105.0	175.0	70.0	5	37	0					0.049	Some surfacing from rod annulus. Pulled old bentonite away and repacked it. Flowing	
	11/4/2025	10:39	17-15	7.6	3.3	175.0	245.0	70.0	5	37	0					0.049		
	11/4/2025	11:36	15-13	5.2	3.1	245.0	315.0	70.0	5	37	0					0.049		
	11/4/2025	12:50	13-11	5.9	2.9	315.0	385.0	70.0	5	37	0					0.049		
	11/4/2025	13:32	11-9	4.6	2.5	385.0	455.0	70.0	5	37	0					0.049		
IP-1-14	11/5/2025	13:55	22-21	23.4	2.2	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/5/2025	14:27	21-19	12.7	2.5	35.0	105.0	70.0	5	37	0					0.049		
	11/5/2025	15:12	19-17	11.4	2.7	105.0	175.0	70.0	5	37	0					0.049		
	11/5/2025	15:48	17-15	14.5	2.7	175.0	245.0	70.0	5	37	0					0.049		
	11/5/2025	16:14	15-13	9.8	2.6	245.0	315.0	70.0	5	37	0					0.049		
	11/5/2025	17:00	13-11	6.6	2.6	315.0	385.0	70.0	5	37	0					0.049		
	11/5/2025	17:32	11-9	5.5	2.3	385.0	455.0	70.0	5	37	0					0.049		
IP-1-15	11/5/2025	13:55	22-21	32.9	2.2	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/5/2025	14:27	21-19	6.7	2.5	35.0	105.0	70.0	5	37	0					0.049		
	11/5/2025	15:12	19-17	10.3	2.7	105.0	175.0	70.0	5	37	0					0.049		
	11/5/2025	15:48	17-15	12.7	2.7	175.0	245.0	70.0	5	37	0					0.049		
	11/5/2025	16:14	15-13	8.9	2.6	245.0	315.0	70.0	5	37	0					0.049		
	11/5/2025	17:01	13-11	4.3	2.5	315.0	385.0	70.0	5	37	0					0.049		
	11/5/2025	17:32	11-9	6.1	2.3	385.0	455.0	70.0	5	37	0					0.049		
IP-1-16	10/31/2025	9:38	22-21	46.5	2.2	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	10/31/2025	10:11	21-19	23.4	3.0	35.0	105.0	70.0	5	37	0					0.049		
	10/31/2025	10:53	19-17	17.8	3.1	105.0	175.0	70.0	5	37	0					0.049		
	10/31/2025	11:47	17-15	19.4	3.1	175.0	245.0	70.0	5	37	0					0.049		
	10/31/2025	12:12	15-13	18.5	3.5	245.0	315.0	70.0	5	37	0					0.049		
	10/31/2025	13:06	13-11	11.9	3.3	315.0	385.0	70.0	5	37	0					0.049		
	10/31/2025	13:53	11-9	8.9	2.8	385.0	455.0	70.0	5	37	0					0.049		
IP-1-17	11/3/2025	10:13	22-21	24.2	2.4	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/3/2025	10:54	21-19	18.1	2.9	35.0	105.0	70.0	5	37	0					0.049	Leaking from rod annulus. Repacked bentonite. Flowing fine. Likely a loose rod	
	11/3/2025	11:30	19-17	10.1	3.1	105.0	175.0	70.0	5	37	0					0.049		
	11/3/2025	12:05	17-15	11.2	3.2	175.0	245.0	70.0	5	37	0					0.049		
	11/3/2025	12:40	15-13	11.1	3.3	245.0	315.0	70.0	5	37	0					0.049		
	11/3/2025	13:19	13-11	10.3	3.4	315.0	385.0	70.0	5	37	0					0.049		
	11/3/2025	14:06	11-9	7.8	2.5	385.0	455.0	70.0	5	37	0					0.049		
IP-1-18	11/4/2025	8:32	22-21	7.5	2.0	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/4/2025	9:10	21-19	38.0	3.0	35.0	105.0	70.0	5	37	0					0.049		
	11/4/2025	10:02	19-17	14.5	3.3	105.0	175.0	70.0	5	37	0					0.049		
	11/4/2025	10:39	17-15	7.2	3.2	175.0	245.0	70.0	5	37	0					0.049		
	11/4/2025	11:35	15-13	9.7	3.1	245.0	315.0	70.0	5	37	0					0.049		
	11/4/2025	12:28	13-11	11.5	2.8	315.0	385.0	70.0	5	37	0					0.049		
	11/4/2025	13:31	11-9	11.2	2.5	385.0	455.0	70.0	5	37	0					0.049		
IP-1-19	11/5/2025	8:36	22-21	34.5	2.7	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/5/2025	9:05	21-19	14.1	3.1	35.0	105.0	70.0	5	37	0					0.049		
	11/5/2025	9:35	19-17	11.7	3.1	105.0	175.0	70.0	5	37	0					0.049		
	11/5/2025	10:12	17-15	12.2	3.2	175.0	245.0	70.0	5	37	0					0.049		
	11/5/2025	10:41	15-13	9.1	3.3	245.0	315.0	70.0	5	37	0					0.049		
	11/5/2025	11:18	13-11	7.1	3.1	315.0	385.0	70.0	5	37	0					0.049		
	11/5/2025	11:53	11-9	7.8	2.7	385.0	455.0	70.0	5	37	0					0.049		

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #1
Appendix B: Table 1

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-1-20	10/31/2025	9:38	22-21	94.5	1.4	0.0	12.0	12.0	1	6	0	455	32	240	0	-	Seems like the screen is clogged, broken or didn't deploy.	2-Foot Screen
	10/31/2025	9:57	21-19	125.0	0.4	12.0	12.0	0.0	0	0	0					-	Pulled early to see if problem continues. Still occurring, pulling and resetting.	
	10/31/2025	10:13	22-21	84.5	2.3	12.0	35.0	23.0	2	12	0					0.025	Injection screen was broken. Putting new screen down same hole with bentonite. Took 140 psi for tool to breakthrough. Flowing now	
	10/31/2025	10:35	21-19	8.5	3.0	35.0	105.0	70.0	5	37	0					0.049		
	10/31/2025	10:59	19-17	12.4	3.2	105.0	175.0	70.0	5	37	0					0.049	Some surfacing from rod annulus. Pulled old bentonite away and repacked it. Flowing	
	10/31/2025	11:46	17-15	9.8	3.1	175.0	245.0	70.0	5	37	0					0.049		
	10/31/2025	12:11	15-13	13.2	3.5	245.0	315.0	70.0	5	37	0					0.049		
	10/31/2025	13:06	13-11	16.4	3.4	315.0	385.0	70.0	5	37	0					0.049	High back pressure when breaking the rods at this interval. Pushing up lots of sand	
	10/31/2025	13:53	11-9	12.2	2.8	385.0	455.0	70.0	5	37	0					0.049		
IP-1-21	11/4/2025	14:27	22-21	56.2	2.3	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/4/2025	15:10	21-19	7.7	3.3	35.0	105.0	70.0	5	37	0					0.049	Surfacing from IP-1-22 borehole. Spoke with and showed driller about proper hole abandonment. Flowing fine now	
	11/4/2025	15:39	19-17	9.4	3.3	105.0	175.0	70.0	5	37	0					0.049		
	11/4/2025	15:56	17-15	11.9	3.4	175.0	245.0	70.0	5	37	0					0.049		
	11/4/2025	16:23	15-13	8.9	3.5	245.0	315.0	70.0	5	37	0					0.049		
	11/4/2025	16:55	13-11	8.4	3.4	315.0	385.0	70.0	5	37	0					0.049		
	11/4/2025	17:33	11-9	7.5	3.2	385.0	455.0	70.0	5	37	0					0.049		
IP-1-22	11/4/2025	8:32	22-21	18.8	1.8	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/4/2025	9:10	21-19	25.0	3.0	35.0	105.0	70.0	5	37	0					0.049		
	11/4/2025	10:02	19-17	24.6	3.3	105.0	175.0	70.0	5	37	0					0.049		
	11/4/2025	10:38	17-15	9.8	3.1	175.0	245.0	70.0	5	37	0					0.049	Surfacing from IP-1-17 borehole. Packed with bentonite. Resumin pump slower	
	11/4/2025	11:36	15-13	8.9	2.7	245.0	315.0	70.0	5	37	0					0.049	Surfacing from rod annulus. Packed with bentonite	
	11/4/2025	12:29	13-11	10.5	2.7	315.0	385.0	70.0	5	37	0					0.049		
	11/4/2025	13:32	11-9	6.3	1.4	385.0	455.0	70.0	5	37	0					0.049	Surfacing again, need to trickle reamining volume	
IP-1-23	10/31/2025	9:38	22-21	20.7	2.2	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	10/31/2025	10:11	21-19	21.2	3.0	35.0	105.0	70.0	5	37	0					0.049		
	10/31/2025	10:53	19-17	13.7	3.1	105.0	175.0	70.0	5	37	0					0.049		
	10/31/2025	11:46	17-15	18.2	3.2	175.0	245.0	70.0	5	37	0					0.049		
	10/31/2025	12:11	15-13	17.4	3.5	245.0	315.0	70.0	5	37	0					0.049		
	10/31/2025	13:06	13-11	18.5	3.4	315.0	385.0	70.0	5	37	0					0.049		
	10/31/2025	13:53	11-9	8.1	2.8	385.0	455.0	70.0	5	37	0					0.049		
IP-1-24	11/6/2025	9:21	22-21	8.4	2.3	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025		2-Foot Screen
	11/6/2025	9:48	21-19	12.6	2.5	35.0	105.0	70.0	5	37	0					0.049		
	11/6/2025	10:22	19-17	12.9	3.2	105.0	175.0	70.0	5	37	0					0.049		
	11/6/2025	10:49	17-15	10.8	3.2	175.0	245.0	70.0	5	37	0					0.049		
	11/6/2025	11:24	15-13	7.4	3.0	245.0	315.0	70.0	5	37	0					0.049		
	11/6/2025	11:56	13-11	10.2	3.1	315.0	385.0	70.0	5	37	0					0.049		
	11/6/2025	12:52	11-9	9.2	2.9	385.0	455.0	70.0	5	37	0					0.049		
IP-1-25	11/6/2025	9:21	22-21	84.2	2.1	0.0	35.0	35.0	2	18	0	455	32	240	0	0.025	First bottom-up screen attempt failed. Pulled screen out to find it broken. Reset with another bottom-up. High pressure but wil llikely stop next pull	2-Foot Screen
	11/6/2025	9:49	21-19	9.7	2.4	35.0	105.0	70.0	5	37	0					0.049	Flowing fine now	
	11/6/2025	10:22	19-17	9.9	3.2	105.0	175.0	70.0	5	37	0					0.049		
	11/6/2025	10:49	17-15	9.3	3.2	175.0	245.0	70.0	5	37	0					0.049		
	11/6/2025	11:24	15-13	7.4	3.1	245.0	315.0	70.0	5	37	0					0.049		
	11/6/2025	11:56	13-11	8.1	3.1	315.0	385.0	70.0	5	37	0					0.049		
	11/6/2025	12:52	11-9	6.6	2.9	386.0	455.0	70.0	5	37	0					0.049		

Total Gallons:	Total Lbs. of S-Micro ZVI	Total Lbs. of PlumeStop	Total Lbs. of AquiFix	Total Liters of BDI
11375.0	800.0	6000.0	0.0	8.0

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #2
Appendix B: Table 2

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-2-1/2	11/10/2025	10:07	27-25	23.9	3.0	0.0	70.0	70.0	0	60	18	660	0	600	180	0.090		2-Foot Screen
	11/10/2025	11:30	25-23	21.1	2.6	70.0	140.0	70.0	0	60	18					0.090		
	11/10/2025	12:06	23-21	42.1	2.4	140.0	210.0	70.0	0	60	18					0.090		
	11/10/2025	13:08	21-19	20.8	2.3	210.0	280.0	70.0	0	60	18					0.090		
	11/10/2025	13:59	19-17	17.3	2.5	280.0	350.0	70.0	0	60	18					0.090		
	11/10/2025	15:00	17-15	13.1	2.6	350.0	420.0	70.0	0	60	18					0.090		
	11/10/2025	15:50	15-13	12.4	2.5	420.0	490.0	70.0	0	60	18					0.090	Surfacing through the cracks of the bricks about 4ft away towards the end of the interval. Slowed pump to finish and lift to next interval.	
	11/10/2025	16:52	13-11	8.1	0.6	490.0	535.0	45.0	0	39	12					0.090	Surfacing through sand near borehole. Not around actual annulus itself though. Going to try and repack some bentonite in. Not working. Surfacing in the cracks still. Need to abandon IP and come back.	
	11/11/2025	7:41	13-11	2.2	1.3	535.0	560.0	25.0	0	21	6						Resuming from last night	
	11/11/2025	8:14	11-9	2.4	1.3	560.0	610.0	50.0	0	60	18					0.090		
	11/11/2025	9:20	9-7	2.1	1.2	610.0	660.0	50.0	0	60	18					0.090		
IP-2-3	11/7/2025	9:20	27-25	38.2	1.9	0.0	70.0	70.0	0	30	9	646	0	277	83	0.045		2-Foot Screen
	11/7/2025	10:15	25-23	32.1	2.2	70.0	140.0	70.0	0	30	9					0.045		
	11/7/2025	10:59	23-21	29.2	3.0	140.0	210.0	70.0	0	30	9					0.045		
	11/7/2025	11:25	21-19	24.5	3.1	210.0	280.0	70.0	0	30	9					0.045		
	11/7/2025	12:01	19-17	20.2	3.1	280.0	350.0	70.0	0	30	9					0.045		
	11/7/2025	12:24	17-15	12.5	3.2	350.0	420.0	70.0	0	30	9					0.045		
	11/7/2025	12:54	15-13	9.5	3.2	420.0	490.0	70.0	0	30	9					0.045		
	11/7/2025	13:31	13-11	9.3	3.1	490.0	560.0	70.0	0	30	9					0.045		
	11/7/2025	13:58	11-9	9.9	3.0	560.0	630.0	70.0	0	30	9					0.045		
	11/7/2025	14:15	9-7	1.1	0.4	630.0	646.0	16.0	0	7	2					0.045	Surfacing from the cracks in the bricks at 644 toal gallons about 2ft off. Tried multiple times and as slow as possible. Going to put the remaining 54 gallons ino adjacent IP-2-4	
IP-2-4	11/7/2025	9:20	27-25	37.2	1.9	0.0	70.0	70.0	0	30	9	754	0	323	97	0.045		2-Foot Screen
	11/7/2025	10:15	25-23	30.2	2.2	70.0	140.0	70.0	0	30	9					0.045		
	11/7/2025	10:59	23-21	31.2	3.0	140.0	210.0	70.0	0	30	9					0.045		
	11/7/2025	11:26	21-19	28.6	3.1	210.0	280.0	70.0	0	30	9					0.045		
	11/7/2025	12:01	19-17	24.3	3.1	280.0	350.0	70.0	0	30	9					0.045		
	11/7/2025	12:25	17-15	14.4	3.2	350.0	420.0	70.0	0	30	9					0.045		
	11/7/2025	12:54	15-13	12.6	3.2	420.0	490.0	70.0	0	30	9					0.045		
	11/7/2025	13:30	13-11	11.3	3.1	490.0	560.0	70.0	0	30	9					0.045		
	11/7/2025	13:58	11-9	10.9	3.1	560.0	630.0	70.0	0	30	9					0.045		
	11/7/2025	14:56	9-7	8.8	3.0	630.0	754.0	124.0	0	53	16					0.045	No issues on this IP	
IP-2-5	11/10/2025	9:20	25-27	2.1	0.3	0.0	0.0	0.0	0	0	0	450	0	300	90	0.045	IP immediatley started surfacing once injections began. Pulled multiple feet and tried at 0.5 gpm each time. Immediate surfacing. Pulled IP and re-tried with a top-down tool and same issue. Pushed down about 4ft with same issue. Pulling IP and will re-assess	2-Foot Exposed Port
	11/11/2025	9:14	7-9	8.4	1.7	0.0	50.0	50.0	0	30	9					0.045	Surfacing from the cracks in the bricks roughly 8.5ft away. Slowly seeped through cracks for 5 minutes while pump was off. Going to push it early and see if problem continues.	
	11/11/2025	10:13	9-11	1.0	0.5	50.0	68.0	18.0	0	11	3					0.045		
	11/11/2025	10:42	11-13	6.2	2.2	68.0	150.0	82.0	0	49	15					0.045		
	11/11/2025	11:59	13-15	4.9	2.2	150.0	200.0	50.0	0	30	9					0.045	General surfacing in bricks. You can see fluid running at bottom of bricks, top of sand from down-gradient exposed IP. Roughly 4" of sand then gravel underneath. Seems like all IP's causing surfacing from brick cracks	
	11/11/2025	13:10	15-17	3.1	1.2	200.0	250.0	50.0	0	30	9					0.045		
	11/11/2025	14:02	17-19	2.5	1.2	250.0	300.0	50.0	0	30	9					0.045	Getting a bit better. Still Some leaks from cracks in bricks	
	11/11/2025	15:45	19-21	4.1	1.2	300.0	350.0	50.0	0	30	9					0.045		
	11/11/2025	16:19	21-23	8.2	1.7	350.0	400.0	50.0	0	30	9					0.045		
	11/11/2025	16:55	23-25	7.2	1.7	400.0	450.0	50.0	0	30	9					0.045		
	11/11/2025	17:49	25-27	5.9	1.5	450.0	500.0	0.0	0	30	9							
IP-2-6/7	11/10/2025	10:20	27-25	57.9	2.9	0.0	70.0	70.0	0	60	18	660	0	600	180	0.090	Some surfacing from rod annulus at the end of this interval. Pulling 2ft then repacking with bentonite	2-Foot Screen
	11/10/2025	11:30	25-23	9.8	2.7	70.0	140.0	70.0	0	60	18					0.090		
	11/10/2025	12:07	23-21	9.1	2.7	140.0	210.0	70.0	0	60	18					0.090		
	11/10/2025	13:00	21-19	6.1	2.2	210.0	264.0	54.0	0	46	14					0.090	Some surfacing from rod annulus. Turned all IP's off and still flowing from rod annulus, slowly but not a good sign.Pulled up 16 gallons early to expose joints and break rods.	
	11/10/2025	13:59	19-17	11.3	2.5	264.0	350.0	86.0	0	74	22					0.090	Extra 16 gallons from interval before	
	11/10/2025	15:00	17-15	6.4	2.6	350.0	420.0	70.0	0	60	18					0.090		
	11/10/2025	15:51	15-13	6.1	2.4	420.0	490.0	70.0	0	60	18					0.090		
	11/10/2025	16:51	13-11	1.5	0.5	490.0	515.0	25.0	0	21	6					0.090	Continuous surfacing from cracks in bricks. Need to abandon IP's	
	11/11/2025	7:41	13-11	4.5	1.2	515.0	560.0	45.0	0	39	12						Resuming from last night	
	11/11/2025	8:14	11-9	5.1	1.2	560.0	610.0	50.0	0	60	18					0.090		
	11/11/2025	9:20	9-7	4.9	1.1	610.0	660.0	50.0	0	60	18					0.090	When driller was pulling this IP I noticed he was 1 rod short. Therefore, all of these treatment zones are likely 5ft higher than it should have been. But I cannot 100% verify. Will keep a closer look when they advance from here on out	
IP-2-8	11/11/2025	9:14	7-9	4.9	1.8	0.0	50.0	50.0	0	30	9	500	0	300	90	0.045		2-Foot Exposed Port
	11/11/2025	10:20	9-11	22.1	2.7	50.0	100.0	50.0	0	30	9					0.045	Seems to be flowing fine when isolated.	
	11/11/2025	10:50	11-13	19.4	2.5	100.0	150.0	50.0	0	30	9					0.045		
	11/11/2025	11:51	13-15	12.9	2.4	150.0	200.0	50.0	0	30	9					0.045	Some surfacing where sidewalk meets laneway bricks	
	11/11/2025	13:10	15-17	6.4	1.2	200.0	250.0	50.0	0	30	9					0.045	Seems like all IP's causing surfacing from brick cracks	
	11/11/2025	14:02	17-19	5.1	1.2	250.0	300.0	50.0	0	30	9					0.045		
	11/11/2025	15:45	19-21	3.2	1.2	300.0	350.0	50.0	0	30	9					0.045	Getting a bit better. Still Some leaks from cracks in bricks	
	11/11/2025	16:19	21-23	5.2	1.8	350.0	400.0	50.0	0	30	9					0.045		
	11/11/2025	16:56	23-25	5.9	1.7	400.0	450.0	50.0	0	30	9					0.045		
	11/11/2025	17:50	25-27	5.2	1.5	450.0	500.0	50.0	0	30	9					0.045		
IP-2-9/10	11/10/2025	11:23	27-25	35.4	2.6	0.0	70.0	70.0	0	60	18	746	0	639	192	0.090		2-Foot Screen
	11/10/2025	11:51	25-23	52.1	2.8	70.0	140.0	70.0	0	60	18					0.090		
	11/10/2025	12:33	23-21	20.6	2.7	140.0	210.0	70.0	0	60	18					0.090		
	11/10/2025	13:19	21-19	15.1	2.8	210.0	280.0	70.0	0	60	18					0.090		
	11/10/2025	14:00	19-17	16.2	2.6	280.0	350.0	70.0	0	60	18					0.090		
	11/10/2025	15:01	17-15	13.6	2.6	350.0	420.0	70.0	0	60	18					0.090		
	11/10/2025	15:51	15-13	12.5	2.5	420.0	490.0	70.0	0	60	18					0.090		
	11/10/2025	16:24	13-11	15.2	2.9	490.0	560.0	70.0	0	60	18					0.090		
	11/10/2025	16:58	11-9	17.4	2.9	560.0	630.0	70.0	0	60	18					0.090		
	11/10/2025	17:51	9-7	12.3	2.7	630.0	746.0	116.0	0	99	30					0.090	Surfacing from IP-6/7's rod annulus. Recapped with injecetion head.	
IP-2-11/12	11/10/2025	11:23	27-25	71.2	2.5	0.0	70.0	70.0	0	60	18	654	0	561	168	0.090		2-Foot Screen
	11/10/2025	11:51	25-23	21.4	2.8	70.0	140.0	70.0	0	60	18					0.090		
	11/10/2025	12:33	23-21	18.9	2.7	140.0	210.0	70.0	0	60	18					0.090		
	11/10/2025	13:19	21-19	16.6	2.8	210.0	280.0	70.0	0	60	18					0.090		
	11/10/2025	14:00	19-17	16.9	2.7	280.0	350.0	70.0	0	60	18					0.090		
	11/10/2025	15:01	17-15	13.8	2.6	350.0	420.0	70.0	0	60	18					0.090		
	11/10/2025	15:51	15-13	15.7	2.5	420.0	490.0	70.0	0	60	18					0.090		
	11/10/2025	16:24	13-11	9.8	2.9	490.0	560.0	70.0	0	60	18					0.090		
	11/10/2025	16:59	11-9	8.7	2.8	560.0	630.0	70.0	0	60	18					0.090		
	11/10/2025	17:17	9-7	4.2	0.4	630.0	654.0	24.0	0	21	6					0.090	Surfacing from rod annuluus and a few inches off. Redirecting reamining volume into IP-9/10	
IP-2-13	11/18/2025	10:46	27-25	132.2	2.4	0.0	35.0	35.0	0	21	6	500	0	300	90	0.045	High pressure but okay flow. No breakthrough, need to lift 2ft early to see if screen is broken.	2-Foot Screen
	11/18/2025	23:30	25-23	24.8	2.6	35.0	100.0	65.0	0	39	12					0.045	Flowing fine now.	
	11/19/2025	0:02	23-21	108.4	2.5	100.0	150.0	50.0	0	30	9					0.045	High pressures and okay flow again.	
	11/19/2025	0:46	21-19	17.4	2.6	150.0	200.0	50.0	0	30	9					0.045		
	11/19/2025	1:18	19-17	11.3	2.5	200.0	250.0	50.0	0	30	9					0.045		
	11/19/2025	1:52	17-15	14.5	2.6	250.0	300.0	50.0	0	30	9					0.045		
	11/19/2025	2:28	15-13	13.2	2.5	300.0	350.0	50.0	0	30	9					0.045	IP is located in the garden and is now surfacing through the parking lot cracks about 6ft away.	
	11/19/2025	3:18	13-11	12.3	2.4	350.0	400.0	50.0	0	30	9					0.045		
	11/19/2025	3:46	11-9	2.3	2.4	400.0	450.0	50.0	0	30	9					0.045		
	11/19/2025	4:36	9-7	5.4	2.3	450.0	500.0	50.0	0	30	9					0.045	Surfacing continued but was able to mitigate most of it.	
IP-2-14	11/19/2025	23:41	27-25	73.2	2.1	0.0	50.0	50.0	0	30	9	500	0	300	90	0.045	Immediate surfacing from rod annulus. Need to reset IP (11/16/2025). Reset today (11/19/2025) and is flowing fine off the start.	2-Foot Screen
	11/20/2025	0:01	25-23	15.1	2.2	50.0	100.0	50.0	0	30	9					0.045		
	11/20/2025	0:42	23-21	14.2	2.2	100.0	150.0	50.0	0	30	9					0.045		
	11/20/2025	1:14	21-19	13.6	2.2	150.0	200.0	50.0	0	30	9					0.045		
	11/20/2025	1:59	19-17	11.9	2.2	200.0	250.0	50.0	0	30	9					0.045		
	11/20/2025	2:28	17-15	11.4	2.2	250.0	300.0	50.0	0	30	9					0.045		
	11/20/2025	3:14	15-13	10.8	2.2	300.0	350.0	50.0	0	30	9					0.045		
	11/20/2025	3:44	13-11	11.2	2.2	350.0	400.0	50.0	0	30	9					0.045	Surfacing from sewer line pothole locates towards the end of this interval. Slowing pump next interval	
	11/20/2025	4:38	11-9	4.6	1.6	400.0	450.0	50.0	0	30	9					0.045	Some surfacing still but slower gpm helps	
	11/20/2025	5:22	9-7	4.2	1.5	450.0	500.0	50.0	0	30	9					0.045		
IP-2-15	11/17/2025	1:55	7-9	21.2	2.2	0.0	70.0	70.0	0	30	9	700	0	300	90	0.045		2-Foot Exposed Port
	11/17/2025	2:57	9-11	9.2	2.6	70.0	140.0	70.0	0	30	9					0.045	Surfacing from pothole sewer locate. Packed hole with bentonite.	
	11/17/2025	3:34	11-13	12.4	3.0	140.0	210.0	70.0	0	30	9					0.045		
	11/17/2025	4:04	13-15	16.6	3.3	210.0	280.0	70.0	0	30	9					0.045		
	11/17/2025	4:27	15-17	10.2	3.5	280.0	350.0	70.0	0	30	9					0.045		
	11/17/2025	5:05	17-19	10.6	3.2	350.0	420.0	70.0	0	30	9					0.045		
	11/17/2025	5:49	19-21	19.3	3.2	420.0	490.0	70.0	0	30	9					0.045		
	11/17/2025	6:15	21-23	11.7	2.5	490.0	560.0	70.0	0	30	9					0.045		
	11/17/2025	6:42	23-25	12.3	2.6	560.0	630.0	70.0	0	30	9					0.045		
	11/17/2025	7:15	25-27	18.4	2.7	630.0	700.0	70.0	0	30	9					0.045		
IP-2-16	11/18/2025	10:56	7-9	22.4	2.4	0.0	50.0	50.0	0	30	9	500	0	300	90	0.045		2-Foot Exposed Port
	11/18/2025	23:31	9-11	19.3	2.6	50.0	100.0	50.0	0	30	9					0.045		
	11/19/2025	0:02	11-13	18.5	2.5	100.0	150.0	50.0	0	30	9					0.045		
	11/19/2025	0:46	13-15	18.1	2.6	150.0	200.0	50.0	0	30	9					0.045		
	11/19/2025	1:18	15-17	11.8	2.5	200.0	250.0	50.0	0	30	9					0.045	Surfacing from sewer line pothole locate	
	11/19/2025	1:52	17-19	9.9	2.5	250.0	300.0	50.0	0	30	9					0.045		
	11/19/2025	2:28	19-21	8.9	2.5	300.0	350.0	50.0	0	30	9					0.045		
	11/19/2025	3:18	21-23	9.8	2.6	350.0	400.0	50.0	0	30	9					0.045	Still surfacing from sewer pothole locate and rod annulus	
	11/19/2025	3:46	23-25	15.2	2.5	400.0	450.0	50.0	0	30	9					0.045		
	11/19/2025	4:38	25-27	7.4	2.4	450.0	500.0	50.0	0	30	9					0.045		
IP-2-17	11/22/2025	0:08	7-9	6.3	2.1	0.0	30.0	30.0	0	30	9	300	0	300	90	0.045		2-Foot Exposed Port
	11/22/2025	0:37	9-11	16.8	2.1	30.0	60.0	30.0	0	30	9					0.045		
	11/22/2025	1:10	11-13	14.2	2.1	60.0	90.0	30.0	0	30	9					0.045	Surfacing from annulus every advance. Need to pack bentonite each time.	
	11/22/2025	1:36	13-15	13.5	2.1	90.0	120.0	30.0	0	30	9					0.045		
	11/22/2025	2:04	27-25	15.1	2.2	120.0	150.0	30.0	0	30	9					0.045		
	11/22/2025	2:40	25-23	14.4	2.2	150.0	180.0	30.0	0	30	9					0.045	Still need to pack bentonite after advance.	
	11/22/2025	3:06	23-21	28.2	2.3	180.0	210.0	30.0	0	30	9					0.045		
	11/22/2025	3:47	21-19	48.2	2.2	210.0	240.0	30.0	0	30	9					0.045		
	11/22/2025	4:21	19-17	59.4	2.1	240.0	270.0	30.0	0	30	9					0.045		
	11/22/2025	5:05	17-15	30.4	2.0	270.0	300.0	30.0	0	30	9					0.045	Again, packed with bentonite. Flows fine once a seal is made	

REGENESIS REMEDIATION SERVICES
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IP-2-18	11/17/2025	0:45	27-25	35.7	2.1	0.0	70.0	70.0	0	30	9	700	0	300	90	0.045		2-Foot Screen
	11/17/2025	2:19	25-23	28.4	2.2	70.0	140.0	70.0	0	30	9					0.045		
	11/17/2025	2:57	23-21	25.5	2.6	140.0	210.0	70.0	0	30	9					0.045		
	11/17/2025	3:34	21-19	19.5	3.1	210.0	280.0	70.0	0	30	9					0.045		
	11/17/2025	4:04	19-17	16.1	3.4	280.0	350.0	70.0	0	30	9					0.045		
	11/17/2025	4:28	17-15	13.1	3.5	350.0	420.0	70.0	0	30	9					0.045		
	11/17/2025	5:06	15-13	12.0	3.3	420.0	490.0	70.0	0	30	9					0.045		
	11/17/2025	5:50	13-11	10.7	3.3	490.0	560.0	70.0	0	30	9					0.045		
	11/17/2025	6:26	11-9	8.1	2.7	560.0	630.0	70.0	0	30	9					0.045		
	11/17/2025	6:59	9-7	7.1	2.6	630.0	700.0	70.0	0	30	9					0.045		
IP-2-19	11/18/2025	23:04	27-25	29.0	2.3	0.0	50.0	50.0	0	30	9	500	0	300	90	0.045		2-Foot Screen
	11/18/2025	23:31	25-23	24.1	2.6	50.0	100.0	50.0	0	30	9					0.045		
	11/19/2025	0:03	23-21	88.3	2.6	100.0	150.0	50.0	0	30	9					0.045	Pressure increasing. Surfacing from rod annulus, repacked with bentonite.	
	11/19/2025	0:46	21-19	24.1	2.6	150.0	200.0	50.0	0	30	9					0.045		
	11/19/2025	1:19	19-17	11.4	2.5	200.0	250.0	50.0	0	30	9					0.045	surfacing from annulus. Repacked with bentonite	
	11/19/2025	1:52	17-15	10.6	2.6	250.0	300.0	50.0	0	30	9					0.045		
	11/19/2025	2:28	15-13	8.2	2.5	300.0	350.0	50.0	0	30	9					0.045	Surfacing from sewer line pothole locate	
	11/19/2025	3:18	13-11	7.3	2.5	350.0	400.0	50.0	0	30	9					0.045		
	11/19/2025	3:46	11-9	9.6	2.6	400.0	450.0	50.0	0	30	9					0.045		
	11/19/2025	4:38	9-7	8.5	2.5	450.0	500.0	50.0	0	30	9					0.045		
IP-2-20	11/19/2025	23:41	7-9	11.2	2.1	0.0	50.0	50.0	0	30	9	500	0	300	90	0.045		2-Foot Exposed Port
	11/20/2025	0:01	9-11	9.8	2.2	50.0	100.0	50.0	0	30	9					0.045		
	11/20/2025	0:41	11-13	9.2	2.3	100.0	150.0	50.0	0	30	9					0.045		
	11/20/2025	1:14	13-15	10.2	2.2	150.0	200.0	50.0	0	30	9					0.045		
	11/20/2025	1:59	15-17	10.4	2.2	200.0	250.0	50.0	0	30	9					0.045		
	11/20/2025	2:28	17-19	17.6	2.2	250.0	300.0	50.0	0	30	9					0.045		
	11/20/2025	3:14	19-21	21.6	2.2	300.0	350.0	50.0	0	30	9					0.045		
	11/20/2025	3:45	21-23	33.4	2.2	350.0	400.0	50.0	0	30	9					0.045		
	11/20/2025	4:39	23-25	45.6	2.2	400.0	450.0	50.0	0	30	9					0.045		
	11/20/2025	5:01	25-27	48.4	2.2	450.0	500.0	50.0	0	30	9					0.045		
IP-2-21	11/22/2025	0:08	7-9	8.8	2.0	0.0	30.0	30.0	0	30	9	300	0	300	90	0.045		2-Foot Exposed Port
	11/22/2025	0:37	9-11	20.2	2.0	30.0	60.0	30.0	0	30	9					0.045		
	11/22/2025	1:10	11-13	18.4	2.1	60.0	90.0	30.0	0	30	9					0.045	Surfacing from annulus every advance. Need to pack bentonite each time.	
	11/22/2025	1:36	13-15	18.9	2.1	90.0	120.0	30.0	0	30	9					0.045		
	11/22/2025	2:04	27-25	17.1	2.2	120.0	150.0	30.0	0	30	9					0.045		
	11/22/2025	2:40	25-23	27.9	2.0	150.0	180.0	30.0	0	30	9					0.045	Still need to pack bentonite after advance.	
	11/22/2025	3:06	23-21	50.1	2.1	180.0	210.0	30.0	0	30	9					0.045		
	11/22/2025	3:47	21-19	32.6	2.1	210.0	240.0	30.0	0	30	9					0.045		
	11/22/2025	4:21	19-17	35.2	2.1	240.0	270.0	30.0	0	30	9					0.045		
	11/22/2025	5:04	17-15	30.4	2.1	270.0	300.0	30.0	0	30	9					0.045	Again, packed with bentonite. Flows fine once a seal is made	
IP-2-22	11/17/2025	0:45	27-25	50.1	2.1	0.0	70.0	70.0	0	30	9	700	0	300	90	0.045	Surfacing from crack in the pavement roughly 2.5ft away. Slowing pump	2-Foot Screen
	11/17/2025	2:19	25-23	21.5	2.2	70.0	140.0	70.0	0	30	9					0.045		
	11/17/2025	2:57	23-21	23.6	2.6	140.0	210.0	70.0	0	30	9					0.045		
	11/17/2025	3:34	21-19	20.6	3.1	210.0	280.0	70.0	0	30	9					0.045		
	11/17/2025	4:05	19-17	21.4	3.4	280.0	350.0	70.0	0	30	9					0.045		
	11/17/2025	4:28	17-15	15.2	3.5	350.0	420.0	70.0	0	30	9					0.045		
	11/17/2025	5:06	15-13	12.1	3.3	420.0	490.0	70.0	0	30	9					0.045	Surfacing from MW well casing roughly 28ft away. Not from the well itself though	
	11/17/2025	5:50	13-11	7.5	3.3	490.0	560.0	70.0	0	30	9					0.045		
	11/17/2025	6:25	11-9	7.6	2.6	560.0	630.0	70.0	0	30	9					0.045		
	11/17/2025	6:59	9-7	8.2	2.6	630.0	700.0	70.0	0	30	9					0.045		
IP-2-23	11/18/2025	23:04	7-9	8.4	2.3	0.0	50.0	50.0	0	30	9	500	0	300	90	0.045		2-Foot Exposed Port
	11/18/2025	23:31	9-11	9.6	2.6	50.0	100.0	50.0	0	30	9					0.045		
	11/19/2025	0:03	11-13	7.6	2.5	100.0	150.0	50.0	0	30	9					0.045	Surfacing from rod annulus. Repacked with bentonite. Flowing	
	11/19/2025	0:46	13-15	8.7	2.6	150.0	200.0	50.0	0	30	9					0.045		
	11/19/2025	1:19	15-17	8.9	2.5	200.0	250.0	50.0	0	30	9					0.045		
	11/19/2025	1:52	17-19	7.5	2.5	250.0	300.0	50.0	0	30	9					0.045		
	11/19/2025	2:28	19-21	5.9	2.5	300.0	350.0	50.0	0	30	9					0.045		
	11/19/2025	3:19	21-23	6.6	2.6	350.0	400.0	50.0	0	30	9					0.045		
	11/19/2025	3:46	23-25	15.2	2.6	400.0	450.0	50.0	0	30	9					0.045		
	11/19/2025	4:38	25-27	8.5	2.4	450.0	500.0	50.0	0	30	9					0.045		
IP-2-24	11/19/2025	23:42	27-25	32.4	2.1	0.0	50.0	50.0	0	30	9	500	0	300	90	0.045		2-Foot Screen
	11/20/2025	0:01	25-23	15.1	2.2	50.0	100.0	50.0	0	30	9					0.045		
	11/20/2025	0:41	23-21	16.2	2.2	100.0	150.0	50.0	0	30	9					0.045		
	11/20/2025	1:15	21-19	14.5	2.2	150.0	200.0	50.0	0	30	9					0.045		
	11/20/2025	1:59	19-17	16.2	2.3	200.0	250.0	50.0	0	30	9					0.045		
	11/20/2025	2:28	17-15	6.7	2.2	250.0	300.0	50.0	0	30	9					0.045		
	11/20/2025	3:14	15-13	4.7	2.2	300.0	350.0	50.0	0	30	9					0.045		
	11/20/2025	3:45	13-11	6.9	2.2	350.0	400.0	50.0	0	30	9					0.045		
	11/20/2025	4:39	11-9	5.1	2.2	400.0	450.0	50.0	0	30	9					0.045		
	11/20/2025	5:01	9-7	5.5	2.2	450.0	500.0	50.0	0	30	9					0.045		
IP-2-25	11/17/2025	2:15	7-9	12.6	2.2	0.0	70.0	70.0	0	30	9	700	0	300	90	0.045		2-Foot Exposed Port
	11/17/2025	2:56	9-11	7.9	2.6	70.0	140.0	70.0	0	30	9					0.045		
	11/17/2025	3:34	11-13	15.5	3.0	140.0	210.0	70.0	0	30	9					0.045		
	11/17/2025	4:05	13-15	15.9	3.4	210.0	280.0	70.0	0	30	9					0.045		
	11/17/2025	4:28	15-17	24.9	3.5	280.0	350.0	70.0	0	30	9					0.045		
	11/17/2025	5:06	17-19	21.9	3.3	350.0	420.0	70.0	0	30	9					0.045	Surfacing from MW well casing roughly 21ft away. Not from the well itself though	
	11/17/2025	5:50	19-21	42.5	3.3	420.0	490.0	70.0	0	30	9					0.045		
	11/17/2025	6:25	21-23	10.7	2.7	490.0	560.0	70.0	0	30	9					0.045		
	11/17/2025	6:42	23-25	11.4	2.6	560.0	630.0	70.0	0	30	9					0.045	Still slowly surfacing through MW-38	
	11/17/2025	7:15	25-27	8.2	2.0	630.0	700.0	70.0	0	30	9					0.045		
IP-2-26	11/23/2025	0:09	7-9	10.0	2.0	0.0	30.0	30.0	0	30	9	300	0	300	90	0.045	Immediate surfacing from rod annulus. Need to reset IP	2-Foot Exposed Port
	11/23/2025	0:35	9-11	8.9	2.0	30.0	60.0	30.0	0	30	9					0.045		
	11/23/2025	0:55	11-13	7.3	2.0	60.0	90.0	30.0	0	30	9					0.045		
	11/23/2025	1:31	13-15	13.2	2.1	90.0	120.0	30.0	0	30	9					0.045		
	11/23/2025	1:59	15-17	35.2	2.1	120.0	150.0	30.0	0	30	9					0.045		
	11/23/2025	2:37	17-19	13.1	2.2	150.0	180.0	30.0	0	30	9					0.045		
	11/23/2025	3:06	19-21	22.1	2.1	180.0	210.0	30.0	0	30	9					0.045		
	11/23/2025	3:49	21-23	32.8	2.1	210.0	240.0	30.0	0	30	9					0.045		
	11/23/2025	4:22	23-25	44.7	2.1	240.0	270.0	30.0	0	30	9					0.045		
	11/23/2025	5:10	25-27	22.5	1.3	270.0	300.0	30.0	0	30	9					0.045		
IP-2-27	11/19/2025	23:42	7-9	12.3	2.1	0.0	50.0	50.0	0	30	9	500	0	300	90	0.045		2-Foot Exposed Port
	11/20/2025	0:01	9-11	8.3	2.2	50.0	100.0	50.0	0	30	9					0.045		
	11/20/2025	0:41	11-13	8.9	2.2	100.0	150.0	50.0	0	30	9					0.045		
	11/20/2025	1:15	13-15	7.8	2.2	150.0	200.0	50.0	0	30	9					0.045		
	11/20/2025	2:00	15-17	19.1	2.2	200.0	250.0	50.0	0	30	9					0.045		
	11/20/2025	2:28	17-19	25.6	2.2	250.0	300.0	50.0	0	30	9					0.045		
	11/20/2025	3:14	19-21	26.1	2.2	300.0	350.0	50.0	0	30	9					0.045		
	11/20/2025	3:45	21-23	33.7	2.2	350.0	400.0	50.0	0	30	9					0.045		
	11/20/2025	4:39	23-25	36.2	2.2	400.0	450.0	50.0	0	30	9					0.045		
	11/20/2025	5:01	25-27	42.3	2.2	450.0	500.0	50.0	0	30	9					0.045		
IP-2-28	11/23/2025	0:09	27-25	34.6	2.0	0.0	30.0	30.0	0	30	9	300	0	300	90	0.045		2-Foot Screen
	11/23/2025	0:35	25-23	32.4	2.0	30.0	60.0	30.0	0	30	9					0.045		
	11/23/2025	0:56	23-21	27.8	2.0	60.0	90.0	30.0	0	30	9					0.045		
	11/23/2025	1:31	21-19	23.5	2.0	90.0	120.0	30.0	0	30	9					0.045		
	11/23/2025	1:59	19-17	15.3	2.1	120.0	150.0	30.0	0	30	9					0.045		
	11/23/2025	2:38	17-15	8.9	2.2	150.0	180.0	30.0	0	30	9					0.045		
	11/23/2025	3:06	15-13	8.4	2.1	180.0	210.0	30.0	0	30	9					0.045		
	11/23/2025	3:50	13-11	7.7	2.1	210.0	240.0	30.0	0	30	9					0.045		
	11/23/2025	4:22	11-9	7.1	2.1	240.0	270.0	30.0	0	30	9					0.045		
	11/23/2025	5:10	9-7	6.4	1.3	270.0	300.0	30.0	0	30	9					0.045		
IP-2-29	11/23/2025	0:08	7-9	8.1	2.0	0.0	30.0	30.0	0	30	9	300	0	300	90	0.045		2-Foot Exposed Port
	11/23/2025	0:35	9-11	10.3	2.0	30.0	60.0	30.0	0	30	9					0.045		
	11/23/2025	0:56	11-13	12.0	2.0	60.0	90.0	30.0	0	30	9					0.045		
	11/23/2025	1:31	13-15	23.1	2.1	90.0	120.0	30.0	0	30	9					0.045		
	11/23/2025	1:59	15-17	28.5	2.1	120.0	150.0	30.0	0	30	9					0.045		
	11/23/2025	2:38	17-19	56.1	2.0	150.0	180.0	30.0	0	30	9					0.045		
	11/23/2025	3:06	19-21	58.3	2.1	180.0	210.0	30.0	0	30	9					0.045		
	11/23/2025	3:49	21-23	32.8	2.1	210.0	240.0	30.0	0	30	9					0.045		
	11/23/2025	4:23	23-25	54.5	2.1	240.0	270.0	30.0	0	30	9					0.045		
	11/23/2025	5:05	25-27	22.7	1.2	270.0	300.0	30.0	0	30	9					0.045		
IP-2-30	11/20/2025	23:14	7-9	7.2	2.0	0.0	50.0	50.0	0	30	9	340	0	300	90	0.045		2-Foot Exposed Port
	11/21/2025	23:55	9-11	8.9	2.1	50.0	100.0	50.0	0	30	9					0.045	Really cannot tell what IP is surfacing due to lag time. I could sit here and pump on one IP at a time to really figure it out, but would take too long. Simply going to reduce volume and pump 15 gallons per foot after this interval.	
	11/21/2025	1:04	11-13	9.9	2.1	100.0	130.0	30.0	0	30	9					0.045		
	11/21/2025	1:43	13-15	11.7	2.1	130.0	160.0	30.0	0	30	9					0.045		
	11/21/2025	2:22	27-25	18.4	2.0	160.0	190.0	30.0	0	30	9					0.045		
	11/21/2025	3:15	25-23	16.9	2.0	190.0	220.0	30.0	0	30	9					0.045	Flowing fine	
	11/21/2025	3:56	23-21	19.7	2.3	220.0	250.0	30.0	0	30	9					0.045		
	11/21/2025	4:22	21-19	23.1	2.2	250.0	280.0	30.0	0	30	9					0.045		
	11/21/2025	4:52	19-17	35.3	2.2	280.0	310.0	30.0	0	30	9					0.045		
	11/21/2025	5:25	17-15	45.2	2.1	310.0	340.0	30.0	0	30	9					0.045		
IP-2-31	11/17/2025	22:59	7-9	6.3	2.1	0.0	70.0	70.0	0	30	9	580	0	300	90	0.045		2-Foot Exposed Port
	11/18/2025	0:01	9-11	26.2	3.0	70.0	140.0	70.0	0	30	9					0.045		
	11/18/2025	0:32	11-13	13.8	2.6	140.0	210.0	70.0	0	30	9					0.045	Some surfacing from rod annulus. Repacked with bentonite. Flowing	
	11/18/2025	1:12	13-15	15.9	2.8	210.0	280.0	70.0	0	30	9					0.045	Constant surfacing from cracks in pavement near MW-29. All active IP's contributing.	
	11/18/2025	3:13	27-25	70.2	2.5	0.0	50.0	50.0	0	30	9					0.045	Immediate & constant surfacing from cracks in pavement. Need to reset IP. Went with bottom-up on reset IP about 2ft up-gradient. Resdosing rest of IP to 50 gpf	
	11/18/2025	3:54	25-23	65.2	2.6	50.0	100.0	50.0	0	30	9					0.045		
	11/18/2025	4:23	23-21	19.2	2.7	100.0	150.0	50.0	0	30	9					0.045		
	11/18/2025	4:46	21-19	14.7	2.7	150.0	200.0	50.0	0	30	9					0.045		
	11/18/2025	5:10	19-17	12.3	2.5	200.0	250.0	50.0	0	30	9					0.045		
	11/18/2025	5:45	17-15	8.5	2.5	250.0	300.0	50.0	0	30	9					0.045		

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #2
Appendix B: Table 2

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

IP-2-32	11/22/2025	0:08	27-25	38.4	2.0	0.0	30.0	30.0	0	30	9	300	0	300	90	0.045	IP had high pressure and low flow. Lifted an extra 2ft and same issue. Need to reset IP. Reset IP working fine now.	2-Foot Screen
	11/22/2025	0:37	25-23	26.2	2.0	30.0	60.0	30.0	0	30	9					0.045		
	11/22/2025	1:11	23-21	18.2	2.1	60.0	90.0	30.0	0	30	9					0.045		
	11/22/2025	1:35	21-19	22.2	2.2	90.0	120.0	30.0	0	30	9					0.045		
	11/22/2025	2:03	19-17	12.4	2.2	120.0	150.0	30.0	0	30	9					0.045		
	11/22/2025	2:40	17-15	14.5	2.2	150.0	180.0	30.0	0	30	9					0.045		
	11/22/2025	3:07	15-13	4.8	2.2	180.0	210.0	30.0	0	30	9					0.045		
	11/22/2025	3:47	13-11	6.2	2.2	210.0	240.0	30.0	0	30	9					0.045		
	11/22/2025	4:20	11-9	6.2	2.1	240.0	270.0	30.0	0	30	9					0.045		
	11/22/2025	4:46	9-7	4.5	2.2	270.0	300.0	30.0	0	30	9					0.045		
IP-2-33	11/20/2025	22:57	27-25	27.7	2.0	0.0	30.0	30.0	0	30	9	470	0	390	117	-	Immediate surfacing from cracks near MW-29. Need to reset IP up-gradient	2-Foot Screen
	11/21/2025	23:33	27-25	33.3	2.6	30.0	100.0	70.0	0	60	18					0.090	Extra volume from IP-2-34	
	11/21/2025	0:17	25-23	50.5	2.6	100.0	200.0	100.0	0	60	18					0.090	Really cannot tell what IP even with this one getting double volume, it doesn't seem like it's the culprit. (Extra volume from IP-2-34)	
	11/21/2025	1:04	23-21	32.1	2.1	200.0	260.0	60.0	0	30	9					0.090	Extra volume from IP-2-34; redose	
	11/21/2025	1:43	21-19	18.5	2.0	260.0	290.0	30.0	0	30	9					0.045		
	11/21/2025	2:22	19-17	16.2	2.1	290.0	320.0	30.0	0	30	9					0.045		
	11/21/2025	3:15	17-15	22.3	2.0	320.0	350.0	30.0	0	30	9					0.045	Flowing fine	
	11/21/2025	3:57	15-13	28.3	2.3	350.0	380.0	30.0	0	30	9					0.045		
	11/21/2025	4:22	13-11	24.2	2.2	380.0	410.0	30.0	0	30	9					0.045		
	11/21/2025	4:52	11-9	6.3	2.1	410.0	440.0	30.0	0	30	9					0.045		
	11/21/2025	5:25	9-7	4.7	2.1	440.0	470.0	30.0	0	30	9					0.045		
IP-2-34	11/17/2025	23:00	7-9	5.9	2.1	0.0	70.0	70.0	0	30	9	280	0	120	36	0.045	Surfacing from MW-29 at 25 total gallons	2-Foot Exposed Port
	11/18/2025	0:01	9-11	11.6	3.0	70.0	140.0	70.0	0	30	9					0.045		
	11/18/2025	0:32	11-13	15.5	2.8	140.0	210.0	70.0	0	30	9					0.045		
	11/18/2025	1:12	13-15	9.6	2.8	210.0	280.0	70.0	0	30	9					0.045	Constant surfacing from cracks in pavement near MW-29. All active IP's contributing.	
	11/18/2025	1:45	-	-	-	-	-	-	-	-	-					-	Immediate & constant surfacing from cracks in pavement. Need to reset IP. Went with bottom-up on reset IP about 2ft down-gradient. Resdosing rest of IP to 50 gpf	
	11/18/2025	2:08	-	-	-	-	-	-	-	-	-					-	After reviewing possible relocate, IP cannot be moved down-gradient due to sewer line and dumpsters against the wall. And cannot be moved up-gradient as it would be placed right in the surfacing trouble area or right beside MW-29. ALL REMAINING VOLUME WILL BE REDIRECTED TO IP's 2-33 & 2-35. @ redose	
IP-2-35	11/22/2025	23:57	27-25	35.6	2.0	0.0	60.0	60.0	0	60	18	390	0	390	117	0.090	Extra volume from IP-2-34	2-Foot Screen
	11/22/2025	0:21	25-23	30.1	2.4	60.0	120.0	60.0	0	60	18					0.090	Extra volume from IP-2-34	
	11/22/2025	1:01	23-21	32.3	2.4	120.0	180.0	60.0	0	60	18					0.090	Extra volume from IP-2-34	
	11/22/2025	1:35	21-19	25.1	2.1	180.0	210.0	30.0	0	30	9					0.045		
	11/22/2025	2:02	19-17	19.2	2.2	210.0	240.0	30.0	0	30	9					0.045		
	11/22/2025	2:40	17-15	5.5	2.2	240.0	270.0	30.0	0	30	9					0.045		
	11/22/2025	3:07	15-13	13.1	2.2	270.0	300.0	30.0	0	30	9					0.045		
	11/22/2025	3:47	13-11	10.2	2.2	300.0	330.0	30.0	0	30	9					0.045	Surfacing from annulus. Packed with bentonite	
	11/22/2025	4:20	11-9	8.2	2.1	330.0	360.0	30.0	0	30	9					0.045		
	11/22/2025	4:46	9-7	7.2	2.1	360.0	390.0	30.0	0	30	9					0.045		
IP-2-36	11/20/2025	23:14	7-9	14.0	1.9	0.0	50.0	50.0	0	30	9	340	0	300	90	0.045		2-Foot Exposed Port
	11/21/2025	0:05	9-11	16.2	2.0	50.0	100.0	50.0	0	30	9					0.045	This IP possibly causing surfacing in pavement cracks near MW-29.	
	11/21/2025	1:04	11-13	12.4	2.0	100.0	130.0	30.0	0	30	9					0.045	Really cannot tell what IP is surfacing due to lag time. I could sit here and pump on one IP at a time to really figure it out, but would take too long. Simply going to reduce volume and pump 15 gallons per foot after this interval.	
	11/21/2025	1:43	13-15	17.2	2.0	130.0	160.0	30.0	0	30	9					0.045		
	11/21/2025	2:22	27-25	23.4	1.9	160.0	190.0	30.0	0	30	9					0.045	Flowing fine	
	11/21/2025	3:15	25-23	22.6	2.0	190.0	220.0	30.0	0	30	9					0.045		
	11/21/2025	3:57	23-21	24.5	2.3	220.0	250.0	30.0	0	30	9					0.045		
	11/21/2025	4:22	21-19	25.2	2.2	250.0	280.0	30.0	0	30	9					0.045		
	11/21/2025	4:53	19-17	35.6	2.1	280.0	310.0	30.0	0	30	9					0.045		
	11/21/2025	5:26	17-15	35.8	2.1	310.0	340.0	30.0	0	30	9					0.045		
IP-2-37	11/17/2025	23:00	7-9	9.8	2.1	0.0	70.0	70.0	0	30	9	580	0	300	90	0.045	Surfacing from MW-29 at 25 total gallons	2-Foot Exposed Port
	11/18/2025	0:01	9-11	15.9	3.0	70.0	140.0	70.0	0	30	9					0.045		
	11/18/2025	0:32	11-13	19.5	2.8	140.0	210.0	70.0	0	30	9					0.045		
	11/18/2025	1:12	13-15	14.1	2.8	210.0	280.0	70.0	0	30	9					0.045	Constant surfacing from cracks in pavement near MW-29. All active IP's contributing.	
	11/18/2025	3:12	27-25	28.8	2.4	0.0	50.0	50.0	0	30	9					0.045	Immediate & constant surfacing from cracks in pavement. Need to reset IP. Went with bottom-up on reset IP about 2ft up-gradient. Resdosing rest of IP to 50 gpf	2-Foot Screen
	11/18/2025	3:53	25-23	29.8	2.7	50.0	100.0	50.0	0	30	9					0.045		
	11/18/2025	4:23	23-21	5.6	2.7	100.0	150.0	50.0	0	30	9					0.045		
	11/18/2025	4:46	21-19	21.0	2.7	150.0	200.0	50.0	0	30	9					0.045		
	11/18/2025	5:10	19-17	16.8	2.5	200.0	250.0	50.0	0	30	9					0.045		
	11/18/2025	5:43	17-15	15.8	2.5	250.0	300.0	50.0	0	30	9					0.045		
IP-2-38	11/23/2025	0:08	27-25	31.3	2.0	0.0	30.0	30.0	0	30	9	300	0	300	90	0.045		2-Foot Screen
	11/23/2025	0:35	25-23	29.1	2.0	30.0	60.0	30.0	0	30	9					0.045		
	11/23/2025	0:56	23-21	31.2	2.0	60.0	90.0	30.0	0	30	9					0.045		
	11/23/2025	1:31	21-19	24.6	2.1	90.0	120.0	30.0	0	30	9					0.045		
	11/23/2025	1:59	19-17	22.1	2.1	120.0	150.0	30.0	0	30	9					0.045		
	11/23/2025	2:38	17-15	20.5	2.1	150.0	180.0	30.0	0	30	9					0.045		
	11/23/2025	3:06	15-13	14.5	2.1	180.0	210.0	30.0	0	30	9					0.045		
	11/23/2025	3:49	13-11	12.2	2.1	210.0	240.0	30.0	0	30	9					0.045		
	11/23/2025	4:23	11-9	10.8	2.1	240.0	270.0	30.0	0	30	9					0.045		
	11/23/2025	5:05	9-7	8.2	1.3	270.0	300.0	30.0	0	30	9					0.045		
IP-2-39	11/20/2025	23:14	27-25	26.0	2.0	0.0	50.0	50.0	0	30	9	340	0	300	90	0.045		2-Foot Screen
	11/21/2025	0:05	25-23	24.3	2.0	50.0	100.0	50.0	0	30	9					0.045	Really cannot tell what IP is surfacing due to lag time. I could sit here and pump on one IP at a time to really figure it out, but would take too long. Simply going to reduce volume and pump 15 gallons per foot after this interval.	
	11/21/2025	1:04	23-21	20.8	2.0	100.0	130.0	30.0	0	30	9					0.045		
	11/21/2025	1:43	21-19	21.3	2.0	130.0	160.0	30.0	0	30	9					0.045		
	11/21/2025	2:22	19-17	19.8	2.1	160.0	190.0	30.0	0	30	9					0.045	Flowing fine	
	11/21/2025	3:15	17-15	18.9	2.0	190.0	220.0	30.0	0	30	9					0.045		
	11/21/2025	3:57	15-13	20.2	2.2	220.0	250.0	30.0	0	30	9					0.045		
	11/21/2025	4:22	13-11	20.8	2.1	250.0	280.0	30.0	0	30	9					0.045		
	11/21/2025	4:53	11-9	9.9	2.1	280.0	310.0	30.0	0	30	9					0.045		
	11/21/2025	5:26	9-7	9.2	2.1	310.0	340.0	30.0	0	30	9					0.045	Leaking from exposed rodstring. Removed. Flowing fine	
IP-2-40	11/17/2025	23:00	7-9	17.3	2.0	0.0	70.0	70.0	0	30	9	580	0	300	90	0.045		2-Foot Exposed Port
	11/18/2025	0:01	9-11	20.3	3.0	70.0	140.0	70.0	0	30	9					0.045		
	11/18/2025	0:33	11-13	17.4	2.8	140.0	210.0	70.0	0	30	9					0.045		
	11/18/2025	1:12	13-15	15.1	2.7	210.0	280.0	70.0	0	30	9					0.045	Constant surfacing from cracks in pavement near MW-29. All active IP's contributing.	
	11/18/2025	2:41	15-17	12.3	2.5	280.0	330.0	50.0	0	30	9					0.045	All IP's been redosed to 50gpf due to constant surfacing	
	11/18/2025	3:54	17-19	30.1	2.7	330.0	380.0	50.0	0	30	9					0.045		
	11/18/2025	4:23	19-21	40.1	2.7	380.0	430.0	50.0	0	30	9					0.045		
	11/18/2025	4:45	21-23	30.1	2.8	430.0	480.0	50.0	0	30	9					0.045		
	11/18/2025	5:11	23-25	17.1	2.7	480.0	530.0	50.0	0	30	9					0.045		
	11/18/2025	5:43	25-27	18.4	2.5	530.0	580.0	50.0	0	30	9					0.045		

Total Gallons:	Total Lbs. of S-Micro ZVI	Total Lbs. of PlumeStop	Total Lbs. of AquiFix	Total Liters of BDI
17870.0	0.0	12000.0	3600.0	18.0

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #3
Appendix B: Table 3

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-3-1	10/26/2025	8:48	30-29	11.9	2.2	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/26/2025	9:11	29-27	10.5	2.8	25.0	75	50.0	11	40	11					0.045		
	10/26/2025	9:58	27-25	11.9	3.0	75.0	125	50.0	11	40	11					0.045		
	10/26/2025	10:35	25-23	13.2	3.4	125.0	175	50.0	11	40	11					0.045		
	10/26/2025	10:58	23-21	18.8	3.4	175.0	225	50.0	11	40	11					0.045		
	10/26/2025	11:31	21-19	20.3	3.2	225.0	275	50.0	11	40	11					0.045		
	10/26/2025	12:04	19-17	15.3	3.4	275.0	325	50.0	11	40	11					0.045		
	10/26/2025	12:38	17-15	15.9	3.4	325.0	375	50.0	11	40	11					0.045		
	10/26/2025	13:01	15-13	9.6	3.3	375.0	425	50.0	11	40	11					0.045		
	10/26/2025	13:28	13-11	9.7	3.3	425.0	475	50.0	11	40	11					0.045		
	10/26/2025	14:10	11-9	8.5	2.7	475.0	525	50.0	11	40	11					0.045		
	10/26/2025	14:49	9-7	7.4	2.6	525.0	575	50.0	11	40	11					0.045		
IP-3-2	10/25/2025	10:41	30-29	20.7	2.3	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/25/2025	11:07	29-27	21.8	2.8	25.0	75.0	50.0	11	40	11					0.045		
	10/25/2025	11:35	27-25	20.3	3.0	75.0	125.0	50.0	11	40	11					0.045		
	10/25/2025	11:59	25-23	18.2	3.3	125.0	175.0	50.0	11	40	11					0.045		
	10/25/2025	12:28	23-21	16.4	3.4	175.0	225.0	50.0	11	40	11					0.045		
	10/25/2025	13:45	21-19	18.6	3.5	225.0	275.0	50.0	11	40	11					0.045		
	10/25/2025	13:08	19-17	18.4	3.5	275.0	325.0	50.0	11	40	11					0.045		
	10/25/2025	13:56	17-15	11.2	2.1	325.0	375.0	50.0	11	40	11					0.045		
	10/25/2025	14:31	15-13	13.3	2.4	375.0	425.0	50.0	11	40	11					0.045		
	10/25/2025	15:09	13-11	11.2	2.4	425.0	475.0	50.0	11	40	11					0.045		
	10/25/2025	15:40	11-9	11.3	2.5	475.0	525.0	50.0	11	40	11					0.045		
	10/25/2025	16:00	9-7	8.7	2.4	525.0	575.0	50.0	11	40	11					0.045		
IP-3-3	10/25/2025	10:41	30-29	18.3	2.3	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/25/2025	11:07	29-27	9.5	2.8	25.0	75	50.0	11	40	11					0.045		
	10/25/2025	11:35	27-25	12.3	3.0	75.0	125	50.0	11	40	11					0.045		
	10/25/2025	11:59	25-23	22.2	3.3	125.0	175	50.0	11	40	11					0.045		
	10/25/2025	12:27	23-21	19.8	3.4	175.0	225	50.0	11	40	11					0.045		
	10/25/2025	12:45	21-19	15.1	3.4	225.0	275	50.0	11	40	11					0.045		
	10/25/2025	13:09	19-17	16.2	3.5	275.0	325	50.0	11	40	11					0.045		
	10/25/2025	13:56	17-15	8.6	2.2	325.0	375	50.0	11	40	11					0.045		
	10/25/2025	14:31	15-13	11.7	2.4	375.0	425	50.0	11	40	11					0.045		
	10/25/2025	15:08	13-11	8.4	1.8	425.0	475	50.0	11	40	11					0.045	Surfacing from rod annulus. Repacked with bentonite and flowing slower.	
	10/25/2025	15:40	11-9	7.6	2.1	475.0	525	50.0	11	40	11					0.045		
	10/25/2025	16:00	9-7	9.7	2.3	525.0	575	50.0	11	40	11					0.045		
IP-3-4	10/11/2025	9:20	30-29	11.7	2.2	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/11/2025	9:51	29-27	14.3	4.0	25.0	75.0	50.0	11	40	11					0.045	High back pressure when breaking rods. Need to let it rest for a few minutes	
	10/11/2025	10:10	27-25	18.8	4.3	75.0	125.0	50.0	11	40	11					0.045		
	10/11/2025	10:52	25-23	22.7	4.2	125.0	174.0	49.0	11	40	11					0.045		
	10/11/2025	11:11	23-21	26.1	4.3	174.0	225.0	51.0	11	41	11					0.045		
	10/11/2025	11:23	21-19	35.4	4.6	225.0	275.0	50.0	11	40	11					0.045	High back pressure when breaking rods. Need to let it rest for a few minutes	
	10/11/2025	11:46	19-17	21.2	4.6	275.0	325.0	50.0	11	40	11					0.045		
	10/11/2025	11:55	17-15	22.9	4.9	325.0	375.0	50.0	11	40	11					0.045		
	10/11/2025	12:19	15-13	19.3	5.0	375.0	425.0	50.0	11	40	11					0.045		
	10/11/2025	12:43	13-11	10.7	4.5	425.0	475.0	50.0	11	40	11					0.045		
	10/11/2025	13:11	11-9	5.4	3.1	475.0	525.0	50.0	11	40	11					0.045		
	10/11/2025	13:34	9-7	6.9	3.2	525.0	575.0	50.0	11	40	11					0.045		
IP-3-5	10/11/2025	14:40	30-29	24.7	3.6	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/11/2025	14:45	29-27	22.7	4.0	25.0	75	50.0	11	40	11					0.045		
	10/11/2025	15:13	27-25	19.7	4.5	75.0	125	50.0	11	40	11					0.045		
	10/11/2025	15:28	25-23	22.7	4.5	125.0	175	50.0	11	40	11					0.045		
	10/11/2025	15:54	23-21	21.2	4.5	175.0	225	50.0	11	40	11					0.045	Some surfacing occuring from cracks in asphalt. Slowing pump rate	
	10/11/2025	16:55	21-19	22.7	4.5	225.0	275	50.0	11	40	11					0.045		
	10/11/2025	17:06	19-17	27.2	5.2	275.0	325.0	50.0	11	40	11					0.045		
	10/11/2025	17:25	17-15	24.8	5.4	325.0	375.0	50.0	11	40	11					0.045		
	10/11/2025	17:40	15-13	22.1	5.3	375.0	425.0	50.0	11	40	11					0.045		
	10/11/2025	17:53	13-11	21.7	4.5	425.0	475	50.0	11	40	11					0.045	Leaking from rodstring. Tightened with pipe wrench. Flowing	
	10/11/2025	18:08	11-9	8.4	3.0	475.0	525	50.0	11	40	11					0.045		
	10/11/2025	18:35	9-7	7.9	4.2	525.0	575.0	50.0	11	40	11					0.045		
IP-3-6	10/4/2025	12:42	30-29	30.5	2.5	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/4/2025	12:56	29-27	25.4	4.3	25.0	75.0	50.0	11	40	11					0.045	High back pressure when breaking rods. Need to let it rest for a few minutes	
	10/4/2025	13:11	27-25	30.4	4.8	75.0	125.0	50.0	11	40	11					0.045		
	10/4/2025	13:39	25-23	23.4	4.6	125.0	175.0	50.0	11	40	11					0.045		
	10/4/2025	14:00	23-21	18.4	4.6	175.0	225.0	50.0	11	40	11					0.045		
	10/4/2025	14:12	21-19	22.4	4.8	225.0	275.0	50.0	11	40	11					0.045		
	10/4/2025	14:35	19-17	17.1	4.0	275.0	325.0	50.0	11	40	11					0.045		
	10/4/2025	14:48	17-15	18.5	4.5	325.0	375.0	50.0	11	40	11					0.045		
	10/4/2025	15:11	15-13	12.4	3.8	375.0	425.0	50.0	11	40	11					0.045		
	10/4/2025	15:31	13-11	8.6	3.8	425.0	475.0	50.0	11	40	11					0.045		
	10/4/2025	16:02	11-9	6.3	2.7	475.0	525.0	50.0	11	40	11					0.045		
	10/4/2025	16:20	9-7	2.1	3.0	525.0	575.0	50.0	11	40	11					0.045		
IP-3-7	10/11/2025	9:20	30-29	16.4	2.1	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/11/2025	9:51	29-27	22.2	4.1	25.0	75	50.0	11	40	11					0.045	High back pressure when breaking rods. Need to let it rest for a few minutes	
	10/11/2025	10:10	27-25	27.4	4.3	75.0	125	50.0	11	40	11					0.045		
	10/11/2025	10:52	25-23	20.4	4.2	125.0	175	50.0	11	40	11					0.045		
	10/11/2025	11:11	23-21	21.0	4.3	175.0	226	51.0	11	41	11					0.045		
	10/11/2025	11:23	21-19	19.7	4.6	226.0	275	49.0	11	40	11					0.045	High back pressure when breaking rods. Need to let it rest for a few minutes	
	10/11/2025	11:46	19-17	18.1	4.6	275.0	325	50.0	11	40	11					0.045		
	10/11/2025	11:55	17-15	19.8	4.8	325.0	375	50.0	11	40	11					0.045		
	10/11/2025	12:17	15-13	16.1	5.0	375.0	425	50.0	11	40	11					0.045		
	10/11/2025	12:43	13-11	15.2	4.0	425.0	475	50.0	11	40	11					0.045		
	10/11/2025	13:11	11-9	6.0	3.2	475.0	524	49.0	11	40	11					0.045		
	10/11/2025	13:34	9-7	6.9	3.2	524.0	575	51.0	11	41	11					0.045		
IP-3-8	10/18/2025	9:50	30-29	25.4	3.4	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/18/2025	10:04	29-27	22.1	3.4	25.0	75.0	50.0	11	40	11					0.045		
	10/18/2025	10:17	27-25	19.4	3.4	75.0	125.0	50.0	11	40	11					0.045		
	10/18/2025	10:49	25-23	17.1	3.6	125.0	175.0	50.0	11	40	11					0.045		
	10/18/2025	11:19	23-21	15.2	2.4	175.0	227.0	52.0	11	42	11					0.045	Many pedestrians in and around site. Going slower	
	10/18/2025	11:40	21-19	19.7	3.0	227.0	275.0	48.0	10	39	10					0.045		
	10/18/2025	12:16	19-17	14.5	3.0	275.0	325.0	50.0	11	40	11					0.045		
	10/18/2025	12:49	17-15	35.6	3.0	325.0	375.0	50.0	11	40	11					0.045		
	10/18/2025	13:28	15-13	39.8	2.9	375.0	410.0	35.0	8	28	8					0.045	Surfacing from same crack in asphalt as last weekend. Pulling 2ft 15 gallons early to see if it continues.	
	10/18/2025	13:39	13-11	14.1	1.6	410.0	417.0	7.0	2	6	2					0.045	7 Gallons in at 1.6 GPM and surfacing continues.	
	10/18/2025	14:37		8.1	1.0	417.0	475.0	58.0	13	47	13						Flowing at 1 gpm seems to work	
	10/18/2025	15:31	11-9	1.7	1.2	475.0	525.0	50.0	11	40	11					0.045	Low and slow	
	10/18/2025	16:29	9-7	1.4	1.2	525.0	575.0	50.0	11	40	11					0.045		
IP-3-9	10/4/2025	12:42	30-29	35.1	2.6	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/4/2025	12:55	29-27	24.6	4.3	25.0	77	52.0	11	42	11					0.045	High back pressure when breaking rods. Need to let it rest for a few minutes	
	10/4/2025	13:12	27-25	27.1	4.8	77.0	125	48.0	10	39	10					0.045		
	10/4/2025	13:39	25-23	24.2	4.7	125.0	175	50.0	11	40	11					0.045		
	10/4/2025	14:00	23-21	20.4	4.6	175.0	225	50.0	11	40	11					0.045		
	10/4/2025	14:12	21-19	26.8	4.8	225.0	275	50.0	11	40	11					0.045		
	10/4/2025	14:36	19-17	18.4	4.0	275.0	325.0	50.0	11	40	11					0.045		
	10/4/2025	14:48	17-15	17.2	4.4	325.0	375.0	50.0	11	40	11					0.045		
	10/4/2025	15:11	15-13	11.7	3.7	375.0	426	51.0	11	41	11					0.045		
	10/4/2025	15:31	13-11	13.4	3.7	426.0	476	50.0	11	40	11					0.045		
	10/4/2025	16:02	11-9	5.6	2.5	476.0	525	49.0	11	40	11					0.045	Minor surfacing from rod annulus. Removed top rod, tightend rod string, and repacked with bentonite. Likely leaking from a rod joint.	
	10/4/2025	16:19	9-7	7.8	3.0	525.0	575.0	50.0	11	40	11					0.045	Flowing fine	
IP-3-10	10/11/2025	9:20	30-29	18.2	2.2	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/11/2025	9:51	29-27	22.0	4.0	25.0	75.0	50.0	11	40	11					0.045	High back pressure when breaking rods. Need to let it rest for a few minutes	
	10/11/2025	10:10	27-25	24.3	4.2	75.0	125.0	50.0	11	40	11					0.045		
	10/11/2025	10:51	25-23	19.3	4.1	125.0	175.0	50.0	11	40	11					0.045		
	10/11/2025	11:11	23-21	23.4	4.2	175.0	225.0	50.0	11	40	11					0.045		
	10/11/2025	11:23	21-19	23.6	4.5	225.0	275.0	50.0	11	40	11					0.045	High back pressure when breaking rods. Need to let it rest for a few minutes	
	10/11/2025	11:47	19-17	17.6	4.6	275.0	325.0	50.0	11	40	11					0.045		
	10/11/2025	11:55	17-15	17.2	4.8	325.0	375.0	50.0	11	40	11					0.045		
	10/11/2025	12:17	15-13	15.4	5.0	375.0	425.0	50.0	11	40	11					0.045		
	10/11/2025	12:42	13-11	9.9	4.0	425.0	475.0	50.0	11	40	11					0.045	Minor surfacing from rod annulus. Tightened rodstring and packed aorund annulus with bentonite. Flowing fine	
	10/11/2025	13:11	11-9	5.8	3.1	475.0	525.0	50.0	11	40	11					0.045		
	10/11/2025	13:34	9-7	5.5	3.2	525.0	575.0	50.0	11	40	11					0.045		
IP-3-11	10/11/2025	14:05	30-29	35.7	3.4	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/11/2025	14:35	29-27	27.9	4.0	25.0	75	50.0	11	40	11					0.045		
	10/11/2025	15:13	27-25	25.5	4.6	75.0	125	50.0	11	40	11					0.045		
	10/11/2025	15:28	25-23	22.9	4.5	125.0	175	50.0	11	40	11					0.045		
	10/11/2025	15:54	23-21	21.2	4.6	175.0	225	50.0	11	40	11					0.045	Some surfacing occuring from cracks in asphalt. Slowing pump rate	
	10/11/2025	16:50	21-19	8.9	2.1	225.0	275	50.0	11	40	11					0.045	This IP and 4-12 are causing surfacing in the cracks of the asphalt. Pulling them and will come back to finish them as it's late in the day. Going to try and finish 4-15 & 4-5	
	10/19/2025	8:38	7-9	11.3	3.5	275.0	325.0	50.0	11	40	11					0.045	Going to retry this IP with a top-down tool	2-Foot Exposed Port
	10/19/2025	9:26	9-11	5.2	1.7	325.0	375.0	50.0	11	40	11					0.045	Moving product across the street, pumping slow	
	10/19/2025	10:01	11-13	13.2	2.5	375.0	425.0	50.0	11	40	11					0.045		
	10/19/2025	11:08	13-15	16.3	3.0	425.0	475	50.0	11	40	11					0.045		
	10/19/2025	11:38	15-17	19.9	2.8	475.0	525	50.0	11	40	11					0.045		
	10/19/2025	12:01	17-19	22.8	3.2	525.0	575	50.0	11	40	11					0.045		

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #3
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REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-3-12	10/11/2025	14:22	30-29	31.2	3.5	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/11/2025	14:38	29-27	30.5	3.9	25.0	75.0	50.0	11	40	11					0.045		
	10/11/2025	15:15	27-25	26.5	4.5	75.0	125.0	50.0	11	40	11					0.045		
	10/11/2025	15:28	25-23	23.4	4.6	125.0	175.0	50.0	11	40	11					0.045		
	10/11/2025	15:54	23-21	20.3	4.6	175.0	225.0	50.0	11	40	11					0.045	Some surfacing occuring from cracks in asphalt. Slowing pump rate	
	10/11/2025	16:50	21-19	7.8	2.0	225.0	275.0	50.0	11	40	11					0.045	This IP and 4-11 are causing surfacing in the cracks of the asphalt. Pulling them and will come back to finish them as it's late in the day. Going to try and finish 4-15 & 4-5	
	10/19/2025	12:45	7-9	24.5	2.5	275.0	325.0	50.0	11	40	11					0.045		2-Foot Exposed Port
	10/19/2025	13:27	9-11	22.1	2.4	325.0	375.0	50.0	11	40	11					0.045	Surfacing from same crack in asphalt as last weekend.	
	10/19/2025	14:04	11-13	12.9	2.8	375.0	425.0	50.0	11	40	11					0.045		
	10/19/2025	14:49	13-15	17.4	2.4	425.0	475.0	50.0	11	40	11					0.045		
	10/19/2025	15:33	15-17	24.2	2.5	475.0	525.0	50.0	11	40	11					0.045		
	10/19/2025	16:45	17-19	26.2	2.8	525.0	575.0	50.0	11	40	11					0.045	Surfacing seemed to stop after 11-13ft	
IP-3-13	10/18/2025	9:59	30-29	23.7	3.4	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/18/2025	10:08	29-27	22.4	3.5	25.0	75	50.0	11	40	11					0.045		
	10/18/2025	10:21	27-25	24.5	3.5	75.0	125	50.0	11	40	11					0.045		
	10/18/2025	10:49	25-23	22.8	3.6	125.0	175	50.0	11	40	11					0.045		
	10/18/2025	11:18	23-21	14.3	2.5	175.0	224	49.0	11	40	11					0.045	Many pedestrians in and around site. Going slower	
	10/18/2025	11:40	21-19	16.4	2.9	224.0	275	51.0	11	41	11					0.045		
	10/18/2025	12:16	19-17	17.4	3.0	275.0	325	50.0	11	40	11					0.045		
	10/18/2025	12:49	17-15	13.2	3.5	325.0	375	50.0	11	40	11					0.045		
	10/18/2025	13:29	15-13	14.2	3.6	375.0	425	50.0	11	40	11					0.045		
	10/18/2025	13:46	13-11	5.5	3.6	425.0	475	50.0	11	40	11					0.045	Flowing fine	
	10/18/2025	14:08	11-9	4.1	3.5	475.0	525	50.0	11	40	11					0.045		
	10/18/2025	14:20	9-7	3.9	3.4	525.0	575	50.0	11	40	11					0.045		
IP-3-14	10/19/2025	9:38	30-29	23.2	2.6	0.0	25.0	25.0	5	20	5	575.0	124.00	464.00	124.00	0.023		2-Foot Screen
	10/19/2025	11:08	29-27	15.7	3.0	25.0	75.0	50.0	11	40	11					0.045		
	10/19/2025	11:38	27-25	18.0	3.0	75.0	126.0	51.0	11	41	11					0.045		
	10/19/2025	12:01	25-23	18.6	3.5	126.0	175.0	49.0	11	40	11					0.045	Surfacing from rod annulus and cracks in the asphalt. Packed with bentonite and tightened	
	10/19/2025	12:47	23-21	7.9	2.4	175.0	225.0	50.0	11	40	11					0.045		
	10/19/2025	13:34	21-19	9.8	2.4	225.0	275.0	50.0	11	40	11					0.045	Needed to repack bentontie after driller lifted to this interval	
	10/19/2025	14:20	19-17	12.3	2.3	275.0	325.0	50.0	11	40	11					0.045	Low seems to be managable	
	10/19/2025	15:51	17-15	4.2	1.0	325.0	375.0	50.0	11	40	11					0.045	Constant surfacing from rod annulus and cracks in the asphalt. Pulling IP	
	10/26/2025	9:31	7-9	9.8	2.4	375.0	425.0	50.0	11	40	11					0.045		2-Foot Exposed Port
	10/26/2025	10:02	9-11	11.5	2.9	425.0	475.0	50.0	11	40	11					0.045		
	10/26/2025	10:57	11-13	15.4	3.0	475.0	525.0	50.0	11	40	11					0.045	Minor surfacing from the cracks in the asphalt again at the end of this interval. Letting IP rest before resuming since there is only one interval left	
	10/26/2025	12:45	13-15	8.2	1.0	525.0	575.0	50.0	11	40	11					0.045	Last interval, just going to trickle at 1 gpm since it's raining	
IP-3-15	10/11/2025	13:52	30-29	18.7	3.6	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/11/2025	14:30	29-27	27.1	4.0	25.0	75	50.0	11	40	11					0.045		
	10/11/2025	15:14	27-25	5.4	4.5	75.0	125	50.0	11	40	11					0.045		
	10/11/2025	15:29	25-23	13.5	4.5	125.0	175	50.0	11	40	11					0.045		
	10/11/2025	15:54	23-21	13.4	4.5	175.0	225	50.0	11	40	11					0.045	Some surfacing occuring from cracks in asphalt. Slowing pump rate	
	10/11/2025	16:55	21-19	15.4	4.5	225.0	275	50.0	11	40	11					0.045	Leaky rodstring. Tightened with pipe wrench	
	10/11/2025	17:06	19-17	24.4	5.1	275.0	325.0	50.0	11	40	11					0.045		
	10/11/2025	17:27	17-15	27.9	5.4	325.0	375.0	50.0	11	40	11					0.045		
	10/11/2025	17:41	15-13	21.8	5.5	375.0	425.0	50.0	11	40	11					0.045		
	10/11/2025	17:54	13-11	23.4	5.5	425.0	475	50.0	11	40	11					0.045		
	10/11/2025	18:03	11-9	18.4	4.5	475.0	525	50.0	11	40	11					0.045		
	10/11/2025	18:35	9-7	17.4	4.3	525.0	575	50.0	11	40	11					0.045		
IP-3-16	10/18/2025	10:01	30-29	27.5	3.4	0.0	25.0	25.0	5	20	5	575.0	124.00	464.00	124.00	0.023		2-Foot Screen
	10/18/2025	10:16	29-27	23.6	3.5	25.0	75.0	50.0	11	40	11					0.045		
	10/18/2025	10:23	27-25	25.0	3.5	75.0	125.0	50.0	11	40	11					0.045		
	10/18/2025	10:49	25-23	16.2	3.5	125.0	175.0	50.0	11	40	11					0.045		
	10/18/2025	11:18	23-21	15.9	2.4	175.0	228.0	53.0	11	43	11					0.045	Many pedestrians in and around site. Going slower	
	10/18/2025	11:40	21-19	18.6	3.0	228.0	275.0	47.0	10	38	10					0.045		
	10/18/2025	12:12	19-17	17.8	3.0	275.0	325.0	50.0	11	40	11					0.045		
	10/18/2025	12:49	17-15	10.7	3.4	325.0	375.0	50.0	11	40	11					0.045		
	10/18/2025	13:29	15-13	12.8	3.6	375.0	425.0	50.0	11	40	11					0.045		
	10/18/2025	13:47	13-11	6.8	3.6	425.0	475.0	50.0	11	40	11					0.045	Flowing fine	
	10/18/2025	14:09	11-9	5.9	3.5	475.0	525.0	50.0	11	40	11					0.045		
	10/18/2025	14:20	9-7	6.4	3.6	525.0	575.0	50.0	11	40	11					0.045		
IP-3-17	10/18/2025	15:14	30-29	74.4	2.9	0.0	25	25.0	5	20	5	575.0	124.00	464.00	124.00	0.023		2-Foot Screen
	10/18/2025	15:35	29-27	28.9	3.0	25.0	75	50.0	11	40	11					0.045		
	10/18/2025	15:57	27-25	27.4	3.7	75.0	125	50.0	11	40	11					0.045		
	10/18/2025	16:08	25-23	26.9	3.9	125.0	176	51.0	11	41	11					0.045		
	10/18/2025	16:28	23-21	21.5	4.2	176.0	225	49.0	11	40	11					0.045		
	10/18/2025	16:51	21-19	24.2	4.2	225.0	275	50.0	11	40	11					0.045		
	10/18/2025	17:15	19-17	22.4	4.1	275.0	325	50.0	11	40	11					0.045		
	10/18/2025	17:35	17-15	20.1	4.2	325.0	375	50.0	11	40	11					0.045		
	10/18/2025	17:47	15-13	22.1	3.5	375.0	425	50.0	11	40	11					0.045		
	10/18/2025	18:02	13-11	22.8	3.4	425.0	440	15.0	3	12	3					0.045	Got to 440 total gallons. Will resume in the morning	
	10/19/2025	8:03		12.2	2.6	440.0	475	35.0	8	28	8						Resuming	
	10/19/2025	8:35	11-9	6.9	3.0	475.0	525	50.0	11	40	11					0.045		
	10/19/2025	8:55	9-7	6.2	3.5	525.0	575	50.0	11	40	11					0.045	No issues finishing these IP's	
IP-3-18	10/25/2025	10:42	30-29	14.2	2.3	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/25/2025	11:07	29-27	23.9	2.8	25.0	75.0	50.0	11	40	11					0.045		
	10/25/2025	11:35	27-25	21.2	3.0	75.0	125.0	50.0	11	40	11					0.045		
	10/25/2025	11:59	25-23	20.6	3.3	125.0	175.0	50.0	11	40	11					0.045		
	10/25/2025	12:27	23-21	18.9	3.4	175.0	225.0	50.0	11	40	11					0.045		
	10/25/2025	12:45	21-19	17.5	3.4	225.0	275.0	50.0	11	40	11					0.045		
	10/25/2025	13:09	19-17	15.5	3.4	275.0	325.0	50.0	11	40	11					0.045	Backpressure after 325 gallons. When driller lifted rod to 17-15ft bgs, fluid started surfacing from around rod annulus. Pump had been off for 10 minutes of so. Tried pumping 0.4 gpm and surfaced immediately. Casing around rod annulus has been blown. Need to reset IP	
	10/25/2025	14:30	17-15	26.1	2.5	325.0	375.0	50.0	11	40	11					0.045	Driller went to 17ft with a top-down tool. Going to use it as a bottom-up though	2-Foot Exposed Port
	10/25/2025	15:08	15-13	19.2	2.5	375.0	425.0	50.0	11	40	11					0.045		
	10/25/2025	15:35	13-11	14.6	2.5	425.0	475.0	50.0	11	40	11					0.045		
	10/25/2025	15:57	11-9	14.2	2.4	475.0	525.0	50.0	11	40	11					0.045	Some surfacing through rod annulus. Packed with bentonite. Flowing	
	10/25/2025	14:24	9-7	11.2	2.4	525.0	575.0	50.0	11	40	11					0.045		
IP-3-19	10/19/2025	9:45	30-29	23.5	2.4	0.0	25	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/19/2025	11:08	29-27	20.9	3.0	25.0	75	50.0	11	40	11					0.045		
	10/19/2025	11:38	27-25	20.3	2.9	75.0	125	50.0	11	40	11					0.045		
	10/19/2025	12:01	25-23	19.2	3.3	125.0	176	51.0	11	41	11					0.045	All IP's were halted for 20 minutes or so before noticing a small trickle of PlumeStop coming from the cracks in the asphalt roughly 26ft away	
	10/19/2025	12:47	23-21	16.7	2.4	176.0	225	49.0	11	40	11					0.045		
	10/19/2025	13:34	21-19	14.9	2.4	225.0	275	50.0	11	40	11					0.045		
	10/19/2025	14:20	19-17	18.8	2.3	275.0	325	50.0	11	40	11					0.045	Some surfacing from 26ft away crack but not not sure which IP is responisible	
	10/19/2025	14:51	17-15	20.1	3.0	325.0	375	50.0	11	40	11					0.045		
	10/19/2025	15:41	15-13	22.7	2.2	375.0	425	50.0	11	40	11					0.045		
	10/19/2025	16:18	13-11	21.9	2.6	425.0	475	50.0	11	40	11					0.045		
	10/19/2025	16:45	11-9	24.6	2.9	475.0	525	50.0	11	40	11					0.045		
	10/19/2025	17:12	9-7	23.4	2.8	525.0	575	50.0	11	40	11					0.045		
IP-3-20	10/26/2025	8:47	30-29	21.2	2.2	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/26/2025	9:11	29-27	25.4	2.8	25.0	75.0	50.0	11	40	11					0.045		
	10/26/2025	9:57	27-25	23.3	3.1	75.0	125.0	50.0	11	40	11					0.045		
	10/26/2025	10:36	25-23	24.5	3.3	125.0	175.0	50.0	11	40	11					0.045		
	10/26/2025	10:56	23-21	20.1	3.5	175.0	225.0	50.0	11	40	11					0.045		
	10/26/2025	11:31	21-19	12.8	3.3	225.0	275.0	50.0	11	40	11					0.045		
	10/26/2025	12:04	19-17	8.9	3.3	275.0	325.0	50.0	11	40	11					0.045		
	10/26/2025	12:38	17-15	12.8	3.4	325.0	375.0	50.0	11	40	11					0.045		
	10/26/2025	13:02	15-13	11.7	3.3	375.0	425.0	50.0	11	40	11					0.045		
	10/26/2025	13:29	13-11	9.8	3.3	425.0	475.0	50.0	11	40	11					0.045		
	10/26/2025	14:10	11-9	7.1	2.8	475.0	525.0	50.0	11	40	11					0.045		
	10/26/2025	14:49	9-7	3.3	2.7	525.0	575.0	50.0	11	40	11					0.045		
IP-3-21	10/18/2025	15:16	30-29	32.1	3.0	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/18/2025	15:35	29-27	33.3	3.0	25.0	75.0	50.0	11	40	11					0.045		
	10/18/2025	15:57	27-25	22.4	3.7	75.0	125.0	50.0	11	40	11					0.045		
	10/18/2025	16:09	25-23	19.8	3.8	125.0	175.0	50.0	11	40	11					0.045		
	10/18/2025	16:29	23-21	20.0	4.0	175.0	225.0	50.0	11	40	11					0.045		
	10/18/2025	16:52	21-19	22.6	4.2	225.0	275.0	50.0	11	40	11					0.045		
	10/18/2025	17:15	19-17	15.4	4.1	275.0	325.0	50.0	11	40	11					0.045		
	10/18/2025	17:35	17-15	11.1	4.2	325.0	375.0	50.0	11	40	11					0.045		
	10/18/2025	17:48	15-13	9.6	3.7	375.0	425.0	50.0	11	40	11					0.045		
	10/18/2025	18:02	13-11	7.7	3.6	425.0	440.0	15.0	3	12	3					0.045	Got to 440 total gallons. Will resume in the morning	
	10/19/2025	8:04		11.1	2.4	440.0	475.0	35.0	8	28	8						Resuming	
	10/19/2025	8:35	11-9	10.2	3.0	475.0	525.0	50.0	11	40	11					0.045		
	10/19/2025	8:55	9-7	7.9	3.0	525.0	575.0	50.0	11	40	11					0.045	No issues finishing these IP's	
IP-3-22	10/26/2025	8:47	30-29	21.7	2.2	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/26/2025	9:11	29-27	23.2	2.7	25.0	75.0	50.0	11	40	11					0.045		
	10/26/2025	9:57	27-25	18.7	3.1	75.0	125.0	50.0	11	40	11					0.045		
	10/26/2025	10:36	25-23	19.2	3.2	125.0	175.0	50.0	11	40	11					0.045		
	10/26/2025	10:57	23-21	21.3	3.4	175.0	225.0	50.0	11	40	11					0.045		
	10/26/2025	11:32	21-19	12.3	3.3	225.0	275.0	50.0	11	40	11					0.045		
	10/26/2025	12:03	19-17	14.4	3.4	275.0	325.0	50.0	11	40	11					0.045		
	10/26/2025	12:38	17-15	14.0	3.4	325.0	375.0	50.0	11	40	11					0.045		
	10/26/2025	13:02	15-13	11.8	3.3	375.0	425.0	50.0	11	40	11					0.045	Back pressure throughout last 4ft or so.	
	10/26/2025	13:29	13-11	9.2	3.4	425.0	475.0	50.0	11	40	11					0.045	Minor surfacing from rod annulus from back pressure. Reducing flow	
	10/26/2025	14:10	11-9	7.6	2.7	475.0	525.0	50.0	11	40	11					0.045		
	10/26/2025	14:48	9-7	3.4	2.6	526.0	575.0	50.0	11	40	11					0.045		

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #3
Appendix B: Table 3

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-3-23	10/25/2025	10:42	30-29	17.4	2.2	0.0	25.0	25.0	5	20	5	575.0	124.00	464.00	124.00	0.023		2-Foot Screen
	10/25/2025	11:07	29-27	19.9	2.8	25.0	75.0	50.0	11	40	11					0.045		
	10/25/2025	11:35	27-25	18.3	3.0	75.0	125.0	50.0	11	40	11					0.045		
	10/25/2025	11:59	25-23	17.5	3.3	125.0	175.0	50.0	11	40	11					0.045		
	10/25/2025	12:27	23-21	19.4	3.5	175.0	225.0	50.0	11	40	11					0.045		
	10/25/2025	12:45	21-19	14.3	3.5	225.0	275.0	50.0	11	40	11					0.045		
	10/25/2025	13:09	19-17	13.1	3.4	275.0	325.0	50.0	11	40	11					0.045		
	10/25/2025	13:55	17-15	12.2	2.1	325.0	375.0	50.0	11	40	11					0.045		
	10/25/2025	14:30	15-13	5.6	2.5	375.0	425.0	50.0	11	40	11					0.045		
	10/25/2025	15:09	13-11	5.6	2.4	425.0	475.0	50.0	11	40	11					0.045		
	10/25/2025	15:40	11-9	9.6	2.3	475.0	525.0	50.0	11	40	11					0.045		
	10/25/2025	16:00	9-7	11.2	2.3	525.0	575.0	50.0	11	40	11					0.045		
IP-3-24	10/19/2025	9:50	30-29	64.4	1.8	0.0	20.0	20.0	4	16	4	575.0	124	464	124	0.023	Surfacing from abandoned IP-5-25. I don't think bentonite was used to abandon the IP before pouring concrete. Pulling 5 gallons early to see if it continues **bentonite was used but wasn't packed into the borehole. Saw when repacking IP myself	2-Foot Screen
	10/19/2025	11:05	29-27	15.8	2.9	20.0	75.0	55.0	12	44	12					0.045	Still surfacing at 1 gpm. Pulled conrete out and repacked the bentonite. Before packing, pump was restarted on other 3 IP's and immediate circuit to this open IP borehole started to fill. Closest IP roughly 13ft away. **Flowing fine after repack	
	10/19/2025	11:38	27-25	19.3	3.0	75.0	125.0	50.0	11	40	11					0.045	Flowing fine now	
	10/19/2025	12:01	25-23	18.2	3.5	125.0	175.0	50.0	11	40	11					0.045		
	10/19/2025	13:06	23-21	4.6	0.7	175.0	206.0	31.0	7	25	7					0.045	All IP's were halted for 20 minutes or so before noticing a small trickle of PlumeStop coming from the cracks in the asphalt roughly 19ft away. Still surfacing from the cracks. Other IP's at volume. Going to pull this one 19 gallons early.	
	10/19/2025	13:34	21-19	9.9	2.0	206.0	275.0	69.0	15	56	15					0.045	Some surfacing from 26ft away crack but not not sure which IP is responisible	
	10/19/2025	14:20	19-17	9.2	1.9	275.0	325.0	50.0	11	40	11					0.045		
	10/19/2025	14:51	17-15	14.2	2.7	325.0	375.0	50.0	11	40	11					0.045		
	10/19/2025	15:41	15-13	11.2	2.8	375.0	425.0	50.0	11	40	11					0.045		
	10/19/2025	16:19	13-11	14.8	2.8	425.0	475.0	50.0	11	40	11					0.045		
	10/19/2025	16:45	11-9	8.9	3.0	475.0	525.0	50.0	11	40	11					0.045		
	10/19/2025	17:12	9-7	7.8	2.7	525.0	575.0	50.0	11	40	11					0.045		
IP-3-25	10/18/2025	15:13	30-29	28.9	3.0	0.0	25.0	25.0	5	20	5	575.0	124	464	124	0.023		2-Foot Screen
	10/18/2025	15:36	29-27	27.5	3.0	25.0	75.0	50.0	11	40	11					0.045		
	10/18/2025	15:58	27-25	22.0	3.7	75.0	125.0	50.0	11	40	11					0.045		
	10/18/2025	16:09	25-23	18.8	3.9	125.0	175.0	50.0	11	40	11					0.045		
	10/18/2025	16:29	23-21	16.5	4.1	175.0	225.0	50.0	11	40	11					0.045		
	10/18/2025	16:52	21-19	15.6	4.2	225.0	275.0	50.0	11	40	11					0.045		
	10/18/2025	17:15	19-17	16.5	4.1	275.0	325.0	50.0	11	40	11					0.045		
	10/18/2025	17:35	17-15	15.9	4.2	325.0	375.0	50.0	11	40	11					0.045		
	10/18/2025	17:48	15-13	12.9	3.7	375.0	425.0	50.0	11	40	11					0.045		
	10/18/2025	18:02	13-11	13.8	3.6	425.0	440.0	15.0	3	12	3					0.045		
	10/19/2025	8:04		5.4	2.5	440.0	475.0	35.0	8	28	8							
	10/19/2025	8:35	11-9	8.9	3.0	475.0	525.0	50.0	11	40	11					0.045		
	10/19/2025	8:55	9-7	6.5	3.0	525.0	575.0	50.0	11	40	11					0.045	No issues finishing these IP's	

Total Gallons:	Total Lbs. of S-Micro ZVI	Total Lbs. of PlumeStop	Total Lbs. of AquiFix	Total Liters of BDI
14375.0	3100.0	11600.0	3100.0	13.0

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #4
Appendix B: Table 4

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-4-1	10/9/2025	10:21	35-33	30.0	3.2	0.0	50	50.0	11	40	11	440	106	400	106	0.045	IP needed a couple minutes at 100psi before breakthrough. Flowing fine	2-Foot Screen
	10/9/2025	10:43	33-31	24.4	3.3	50.0	100	50.0	11	40	11					0.045		
	10/9/2025	11:32	31-29	19.2	2.9	100.0	150	50.0	11	40	11					0.045		
	10/9/2025	11:53	29-27	17.8	1.0	150.0	200	50.0	11	40	11					0.045	Slowly pumping on one IP at a time at 1 GPM while drillers take 2 cores and set 2 temp wells	
	10/9/2025	16:40	27-25	16.4	1.5	200.0	240	40.0	11	40	11					0.045	Trying over 1 GPM on this point solo. Flowing 1.5 gpm with IP-4-5	
	10/9/2025	17:37	25-23	20.6	1.6	240.0	280	40.0	11	40	11					0.045	Can flow with 5-5 at 1.6 gpm with no surfacing.	
	10/10/2025	8:30	23-21	21.7	1.8	280.0	320.0	40.0	11	40	11					0.045	Flowing simultaneously with IP-4-5 at 1.8 GPM	
	10/10/2025	9:22	21-19	18.7	2.0	320.0	360.0	40.0	11	40	11					0.045		
	10/10/2025	10:02	19-17	18.1	1.8	360.0	400.0	40.0	11	40	11					0.045		
	10/10/2025	10:32	17-15	20.3	3.0	400.0	440.0	40.0	11	40	11					0.045	Flowing 3 GPM simutaneously with IP-4-6 and no issues.	
IP-4-2	10/10/2025	12:06	35-33	50.7	1.5	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045	Starting this IP solo and will place IP-4-17. Once 4-2 reaches 80 gallons minimum then 4-17 will begin	2-Foot Screen
	10/10/2025	12:32	33-31	26.0	2.7	40.0	80.0	40.0	11	40	11					0.045	80 Gallons in no problem. Going to lift to next interval and halt injections while we start IP-4-17	
	10/10/2025	13:31	31-29	21.7	2.0	80.0	120.0	40.0	11	40	11					0.045	Surfacing from problem area 30-36ft away. Slowed flow rate	
	10/10/2025	14:00	29-27	21.2	2.0	120.0	160.0	40.0	11	40	11					0.045		
	10/10/2025	14:47	27-25	20.7	2.4	160.0	200.0	40.0	11	40	11					0.045		
	10/10/2025	15:09	25-23	24.7	3.0	200.0	240.0	40.0	11	40	11					0.045	Flowing simutaneously with IP-4-17 at 3 GPM	
	10/10/2025	15:37	23-21	21.7	3.0	240.0	280.0	40.0	11	40	11					0.045		
	10/10/2025	14:00	21-19	15.8	3.0	280.0	320.0	40.0	11	40	11					0.045		
	10/10/2025	16:17	19-17	17.0	3.1	320.0	360.0	40.0	11	40	11					0.045	Flowing great	
	10/10/2025	16:35	17-15	13.5	2.9	360.0	400.0	40.0	11	40	11					0.045	Some surfacing from 31-27ft bgs. but worked fine after that. Didn't try going past 3 GPM though	
IP-4-3	10/15/2025	9:35	15-17	48.2	3.4	0.0	40	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/15/2025	9:57	17-19	42.2	3.5	40.0	80	40.0	11	40	11					0.045		
	10/15/2025	10:16	19-21	29.8	3.4	80.0	120	40.0	11	40	11					0.045	Minor surfacing from four random holes roughly 5.5ft to 11ft away. Slowing pump	
	10/15/2025	11:03	21-23	20.2	2.6	120.0	160	40.0	11	40	11					0.045		
	10/15/2025	11:13	23-25	14.2	1.9	160.0	191	31.0	8	31	8					0.045	Still some minor surfacing. Going to advance 9 gallons early	
	10/15/2025	11:42	25-27	29.1	2.3	191.0	240	49.0	13	49	13					0.045	Original surfacing spot not surfacing anymore. It is somewhere under the pebbles and gravel but cannot pinpoint spot. Have vacuumed up maybe 1 gallon total.	
	10/15/2025	12:11	27-29	32.4	2.3	240.0	280.0	40.0	11	40	11					0.045		
	10/15/2025	12:28	29-31	30.5	2.2	280.0	320.0	40.0	11	40	11					0.045		
	10/15/2025	12:54	31-33	53.5	2.3	320.0	360.0	40.0	11	40	11					0.045		
	10/15/2025	13:27	33-35	84.2	2.4	360.0	400.0	40.0	11	40	11					0.045		
IP-4-4	10/13/2025	10:05	35-33	45.5	2.4	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045	Some high pressure when starting, Lowered and slowly raised pump speed	2-Foot Screen
	10/13/2025	10:30	33-31	33.1	2.6	40.0	80.0	40.0	11	40	11					0.045		
	10/13/2025	10:58	31-29	26.5	2.8	80.0	120.0	40.0	11	40	11					0.045	Minor surfacing in problem area. Vacuumed up all liquid	
	10/13/2025	11:35	29-27	22.4	2.4	120.0	160.0	40.0	11	40	11					0.045		
	10/13/2025	12:08	27-25	19.7	2.4	160.0	200.0	40.0	11	40	11					0.045		
	10/13/2025	12:41	25-23	19.4	2.9	200.0	240.0	40.0	11	40	11					0.045		
	10/13/2025	13:18	23-21	16.5	2.8	240.0	280.0	40.0	11	40	11					0.045		
	10/13/2025	13:51	21-19	14.5	2.9	280.0	320.0	40.0	11	40	11					0.045		
	10/13/2025	14:26	19-17	13.2	2.2	320.0	360.0	40.0	11	40	11					0.045	Some surfacing in problem area from last week.	
	10/13/2025	13:15	17-15	12.2	2.3	360.0	400.0	40.0	11	40	11					0.045		
IP-4-5	10/9/2025	10:24	35-33	23.9	3.5	0.0	50	50.0	11	40	11	440	106	400	106	0.045		2-Foot Screen
	10/9/2025	10:45	33-31	23.8	3.3	50.0	100	50.0	11	40	11					0.045	Some surfacing about 30ft away from this IP at interval end	
	10/9/2025	11:33	31-29	22.4	2.8	100.0	150	50.0	11	40	11					0.045		
	10/9/2025	13:04	29-27	4.9	1.1	150.0	197	47.0	10	38	10					0.045	Slowly pumping on one IP at a time at 1 GPM while drillers take 2 cores and set 2 temp wells	
	10/9/2025	16:22	27-25	18.4	1.6	197.0	240	43.0	11	43	11					0.045	Trying over 1 GPM on this point solo. Flowing 1.6 gpm with IP-4-1	
	10/9/2025	17:37	25-23	15.9	1.6	240.0	280	40.0	11	40	11					0.045	Can flow with 5-1 at 1.6 gpm with no surfacing.	
	10/10/2025	8:30	23-21	15.6	1.8	280.0	320.0	40.0	11	40	11					0.045	Flowing simultaneously with IP-4-1 at 1.8 GPM	
	10/10/2025	9:22	21-19	14.8	1.8	320.0	360.0	40.0	11	40	11					0.045		
	10/10/2025	10:02	19-17	12.5	1.9	360.0	400.0	40.0	11	40	11					0.045		
	10/10/2025	10:34	17-15	20.8	3.0	400.0	440.0	40.0	11	40	11					0.045	Flowing 3 GPM simutaneously with IP-4-1 and no issues.	
IP-4-6	10/15/2025	14:34	15-17	33.7	3.2	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045	Backpressure	2-Foot Exposed Port
	10/15/2025	14:57	17-19	18.6	3.1	40.0	80.0	40.0	11	40	11					0.045		
	10/15/2025	15:24	19-21	21.2	3.3	80.0	120.0	40.0	11	40	11					0.045		
	10/15/2025	15:51	21-23	20.3	3.2	120.0	160.0	40.0	11	40	11					0.045		
	10/15/2025	16:08	23-25	22.6	3.2	160.0	200.0	40.0	11	40	11					0.045		
	10/15/2025	16:35	25-27	57.4	3.6	200.0	240.0	40.0	11	40	11					0.045	Pressure seems to build up here	
	10/15/2025	16:44	27-29	69.9	4.0	240.0	280.0	40.0	11	40	11					0.045	Pressure seems to build up here	
	10/15/2025	17:05	29-31	31.1	2.9	280.0	320.0	40.0	11	40	11					0.045	Some surfacing in problem area from last week.	
	10/15/2025	17:21	31-33	17.7	1.9	320.0	360.0	40.0	11	40	11					0.045	Likely this IP causing surfacing in problem area. Same zone as IP-4-15,9,5,2 etc...	
	10/15/2025	17:53	33-35	19.2	1.9	360.0	400.0	40.0	11	40	11					0.045		
IP-4-7	10/22/2025	10:36	15-17	30.5	2.8	0.0	40	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/22/2025	10:58	17-19	35.8	3.4	40.0	82	42.0	11	42	11					0.045		
	10/22/2025	11:25	19-21	28.3	3.3	82.0	120	38.0	10	38	10					0.045		
	10/22/2025	11:50	21-23	22.4	3.3	120.0	160	40.0	11	40	11					0.045		
	10/22/2025	12:13	23-25	24.7	3.4	160.0	200	40.0	11	40	11					0.045		
	10/22/2025	12:42	25-27	26.1	3.5	200.0	240	40.0	11	40	11					0.045		
	10/22/2025	13:12	27-29	32.4	2.8	240.0	280	40.0	11	40	11					0.045	Flowing fine	
	10/22/2025	13:50	29-31	31.2	2.5	280.0	320	40.0	11	40	11					0.045		
	10/22/2025	14:15	31-33	27.2	2.4	320.0	360	40.0	11	40	11					0.045	Starting to surfacing from rod annulus.	
	10/22/2025	15:13	33-35	38.9	2.5	360.0	400	40.0	11	40	11					0.045		
IP-4-8	10/23/2025	9:12	35-33	24.7	1.8	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/23/2025	10:20	33-31	12.6	0.8	40.0	80.0	40.0	11	40	11					0.045	Surfacing from 0.8" from annulus. Likely leaky rods.	
	10/23/2025	11:51	31-29	11.8	0.8	80.0	120.0	40.0	11	40	11					0.045		
	10/23/2025	12:48	29-27	9.6	0.4	120.0	127.0	7.0	2	7	2					-	Still constantly surfacing. Will have to reset this IP	
	10/28/2025	9:31	29-27	17.8	1.8	127.0	160.0	33.0	9	33	9					0.045	Trying this IP where we left off 5 days ago.	
	10/28/2025	10:06	27-25	19.8	2.4	160.0	200.0	40.0	11	40	11					0.045		
	10/28/2025	10:40	25-23	14.4	2.5	200.0	240.0	40.0	11	40	11					0.045		
	10/28/2025	11:16	23-21	15.9	2.7	240.0	281.0	41.0	11	41	11					0.045		
	10/28/2025	11:45	21-19	14.5	2.8	281.0	320.0	39.0	10	39	10					0.045		
	10/28/2025	12:27	19-17	17.4	2.8	320.0	360.0	40.0	11	40	11					0.045		
	10/28/2025	13:08	17-15	17.5	2.5	360.0	400.0	40.0	11	40	11					0.045		
IP-4-9	10/9/2025	10:24	35-33	23.7	3.5	0.0	50	50.0	11	40	11	440	106	400	106	0.045		2-Foot Screen
	10/9/2025	10:44	33-31	25.4	3.2	50.0	100	50.0	11	40	11					0.045	Some surfacing about 25ft away from this IP at interval end	
	10/9/2025	11:33	31-29	21.8	2.7	100.0	150	50.0	11	40	11					0.045	Surfacing seems to be coming out vertically from underneath the surface cap.	
	10/9/2025	15:12	29-27	6.7	1.1	150.0	191	41.0	9	33	9					0.045	Slowly pumping on one IP at a time at 1 GPM while drillers take 2 cores and set 2 temp wells	
	10/9/2025	16:00	27-25	17.8	1.5	191.0	240	49.0	13	49	13					0.045	Trying over 1 GPM on this point solo. Finished solo no problems	
	10/9/2025	17:44	25-23	14.2	1.5	240.0	280	40.0	11	40	11					0.045	When flowing on all 3 IP's we surface. This one solo can do 1.5 gpm	
	10/10/2025	9:22	23-21	12.5	1.4	280.0	320.0	40.0	11	40	11					0.045	Surfacing around rod annulus. Drillers poured bentonite around rodstring at surface. Tightened rod string, flowing fine.	
	10/10/2025	10:08	21-19	7.4	0.9	320.0	343.0	23.0	6	23	6					0.045	Surfacing from rod annulus, tried packing with more bentonite and tightening rod strings. Pulling up 2ft early to try again.	
	10/10/2025	10:55	19-17	8.1	1.3	343.0	400.0	57.0	15	57	15					0.045	Flowing	
	10/10/2025	11:18	17-15	11.5	1.5	400.0	440.0	40.0	11	40	11					0.045		
IP-4-10	10/27/2025	10:25	35-33	22.2	2.0	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/27/2025	10:51	33-31	28.4	2.1	40.0	80.0	40.0	11	40	11					0.045		
	10/27/2025	11:22	31-29	24.9	2.6	80.0	120.0	40.0	11	40	11					0.045		
	10/27/2025	12:24	29-27	24.5	2.8	120.0	160.0	40.0	11	40	11					0.045		
	10/27/2025	12:48	27-25	22.4	3.1	160.0	200.0	40.0	11	40	11					0.045		
	10/27/2025	13:11	25-23	25.6	3.2	200.0	240.0	40.0	11	40	11					0.045		
	10/27/2025	13::34	23-21	17.3	3.1	240.0	280.0	40.0	11	40	11					0.045		
	10/27/2025	13:58	21-19	19.7	3.1	280.0	320.0	40.0	11	40	11					0.045		
	10/27/2025	14:15	19-17	15.6	2.6	320.0	360.0	40.0	11	40	11					0.045		
	10/27/2025	15:01	17-15	14.5	2.6	360.0	400.0	40.0	11	40	11					0.045		
IP-4-11	10/29/2025	9:04	35-33	24.2	2.5	0.0	40	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/29/2025	9:27	33-31	23.6	2.4	40.0	80	40.0	11	40	11					0.045		
	10/29/2025	10:04	31-29	21.3	2.5	80.0	120	40.0	11	40	11					0.045		
	10/29/2025	10:42	29-27	23.6	2.9	120.0	160	40.0	11	40	11					0.045		
	10/29/2025	11:00	27-25	21.5	3.0	160.0	200	40.0	11	40	11					0.045		
	10/29/2025	11:30	25-23	22.1	2.8	200.0	240	40.0	11	40	11					0.045		
	10/29/2025	11:57	23-21	20.4	3.4	240.0	280.0	40.0	11	40	11					0.045	Some product showing up in the problem gutter area.	
	10/29/2025	12:31	21-19	22.9	3.2	280.0	320.0	40.0	11	40	11					0.045		
	10/29/2025	12:56	19-17	21..8	2.8	320.0	360.0	40.0	11	40	11					0.045		
	10/29/2025	13:24	17-15	20.4	2.6	360.0	400.0	40.0	11	40	11					0.045		
IP-4-12	10/23/2025	9:12	35-33	31.2	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/23/2025	9:54	33-31	37.5	2.4	40.0	80.0	40.0	11	40	11					0.045		
	10/23/2025	10:47	31-29	24.1	2.3	80.0	120.0	40.0	11	40	11					0.045		
	10/23/2025	11:45	29-27	20.7	2.4	120.0	160.0	40.0	11	40	11					0.045	Some surfacing spreading out near IP. Not too sure where it's from	
	10/23/2025	12:23	27-25	22.5	2.5	160.0	200.0	40.0	11	40	11					0.045		
	10/23/2025	12:01	25-23	18.6	2.3	200.0	240.0	40.0	11	40	11					0.045		
	10/23/2025	13:35	23-21	13.1	2.1	240.0	280.0	40.0	11	40	11					0.045		
	10/23/2025	14:04	21-19	17.5	2.0	280.0	320.0	40.0	11	40	11					0.045	Still some minor surfacing. Slowing pump	
	10/23/2025	14:41	19-17	12.2	1.9	320.0	360.0	40.0	11	40	11					0.045		
	10/23/2025	15:12	17-15	12.4	1.8	360.0	400.0	40.0	11	40	11					0.045		
IP-4-13	10/22/2025	10:42	35-33	28.9	2.8	0.0	42	42.0	11	42	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/22/2025	10:58	33-31	28.9	3.4	42.0	80	38.0	10	38	10					0.045		
	10/22/2025	11:45	31-29	175.0	0.0	80.0	83	3.0	1	3	1					-	Tool likely clogged. Pulling up 2ft to verify	
	10/22/2025	11:55	15-17	24.1	3.4	0.0	40	40.0	11	40	11					0.045	Very high pressure and 0.0 gpm. Pulling IP and resetting with a top-down	
	10/22/2025	12:11	17-19	14.9	3.2	40.0	80	40.0	11	40	11					0.045		
	10/22/2025	12:53	19-21	12.3	3.3	80.0	120	40.0	11	40	11					0.045	Surfacing 1.5ft away from random spot Slowing pump	
	10/22/2025	13:14	21-23	33.1	1.0	120.0	160	40.0	11	40	11					0.045		
	10/22/2025	14:51	23-25	29.8	1.0	160.0	200	40.0	11	40	11					0.045		
	10/22/2025	16:11	25-27	27.1	1.2	200.0	240	40.0	11	40	11					0.045	Going slower so we can move some equipmemt over to Barrier 1 area	
	10/22/2025	16:32	27-29	28.6	1.6	240.0	280	40.0	11	40	11					0.045	Not surfacing as bad. Going to slowly increase	
	10/22/2025	16:58	29-31	34.7	1.9	280.0	317	37.0	10	37	10					0.045		

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #4
Appendix B: Table 4

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-4-14	10/13/2025	10:40	35-33	14.0	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/13/2025	10:59	33-31	17.1	2.5	40.0	80.0	40.0	11	40	11					0.045	Minor surfacing in problem area. Vacuumed up all liquid	
	10/13/2025	11:35	31-29	18.4	1.4	80.0	120.0	40.0	11	40	11					0.045	Surfacing from rod annulus at 100 total gallons, tried packing with more bentonite and tightening rod strings.	
	10/13/2025	12:01	29-27	17.6	1.8	120.0	160.0	40.0	11	40	11					0.045	Removed drillers rodstring because I could see it visibly leak from the seams	
	10/13/2025	12:45	27-25	14.6	1.7	160.0	200.0	40.0	11	40	11					0.045	Still pretty leaky around rod annulus. Low flow seems to work though	
	10/13/2025	13:18	25-23	14.4	1.8	200.0	240.0	40.0	11	40	11					0.045		
	10/13/2025	13:58	23-21	12.4	1.8	240.0	280.0	40.0	11	40	11					0.045	Still minor surfacing from this IP but alse in the problem area from last week	
	10/13/2025	14:31	21-19	11.4	1.7	280.0	320.0	40.0	11	40	11					0.045		
	10/13/2025	15:09	19-17	10.4	1.5	320.0	360.0	40.0	11	40	11					0.045	Only works if pumping slow	
	10/13/2025	15:42	17-15	10.7	1.5	360.0	400.0	40.0	11	40	11					0.045		
IP-4-15	10/15/2025	14:08	15-17	27.8	3.2	0.0	40	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/15/2025	14:34	17-19	21.3	3.5	40.0	80	40.0	11	40	11					0.045		
	10/15/2025	14:56	19-21	60.9	2.5	80.0	120	40.0	11	40	11					0.045		
	10/15/2025	15:25	21-23	58.8	2.8	120.0	160	40.0	11	40	11					0.045	Higher pressures, lower flow	
	10/15/2025	15:50	23-25	24.1	3.1	160.0	200	40.0	11	40	11					0.045	Flowing better now	
	10/15/2025	16:09	25-27	29.8	3.3	200.0	240	40.0	11	40	11					0.045		
	10/15/2025	16:35	27-29	45.5	3.9	240.0	280.0	40.0	11	40	11					0.045	Pressure seems to build up here	
	10/15/2025	16:54	29-31	54.1	4.0	280.0	320.0	40.0	11	40	11					0.045	Pressure seems to build up here	
	10/15/2025	17:06	31-33	37.1	2.9	320.0	360.0	40.0	11	40	11					0.045	Some surfacing in problem area from last week. Unsure if it's this IP though	
	10/15/2025	17:42	33-35	23.2	3.4	360.0	400.0	40.0	11	40	11					0.045	No issues on this IP	
IP-4-16	10/23/2025	9:12	35-33	45.7	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/23/2025	9:54	33-31	42.8	2.3	40.0	80.0	40.0	11	40	11					0.045		
	10/23/2025	10:47	31-29	44.5	2.4	80.0	120.0	40.0	11	40	11					0.045		
	10/23/2025	11:45	29-27	32.3	2.3	120.0	160.0	40.0	11	40	11					0.045		
	10/23/2025	12:23	27-25	30.4	2.4	160.0	200.0	40.0	11	40	11					0.045		
	10/23/2025	12:02	25-23	22.3	2.2	200.0	240.0	40.0	11	40	11					0.045	Starting to see some random cracks surfacing in this area. Can't pinpoint where, likely multiple	
	10/23/2025	13:36	23-21	18.7	2.1	240.0	280.0	40.0	11	40	11					0.045		
	10/23/2025	14:05	21-19	16.4	2.0	280.0	320.0	40.0	11	40	11					0.045		
	10/23/2025	14:42	19-17	12.7	1.9	320.0	360.0	40.0	11	40	11					0.045	Still some minor surfacing. But it seems to be coming from IP-4-12. Slowing with it	
	10/23/2025	15:11	17-15	12.8	1.7	360.0	400.0	40.0	11	40	11					0.045		
IP-4-17	10/10/2025	13:00	35-33	22.1	1.9	0.0	40	40.0	11	40	11	400	106	400	106	0.045	Starting this IP by itself. IP-4-2 is listed to 31-29ft but only 80 Gallons so far.	2-Foot Screen
	10/10/2025	14:25	33-31	18.4	2.0	40.0	80	40.0	11	40	11					0.045	Surfacing from 29ft away. Slowing pump rates	
	10/10/2025	14:55	31-29	14.5	1.9	80.0	120	40.0	11	40	11					0.045	Seems to be accepting well now	
	10/10/2025	15:15	29-27	21.4	3.0	120.0	160	40.0	11	40	11					0.045	Increasing flow rates	
	10/10/2025	15:35	27-25	20.7	3.0	160.0	200	40.0	11	40	11					0.045		
	10/10/2025	15:59	25-23	16.6	3.0	200.0	240	40.0	11	40	11					0.045		
	10/10/2025	16:15	23-21	15.4	3.0	240.0	280.0	40.0	11	40	11					0.045	Flowing great	
	10/10/2025	16:35	21-19	18.4	3.0	280.0	320.0	40.0	11	40	11					0.045		
	10/10/2025	16:50	19-17	14.8	3.3	320.0	360.0	40.0	11	40	11					0.045		
	10/10/2025	17:14	17-15	17.4	3.5	360.0	400.0	40.0	11	40	11					0.045		
IP-4-18	10/15/2025	9:26	15-17	41.2	3.4	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/15/2025	9:56	17-19	49.8	3.5	40.0	80.0	40.0	11	40	11					0.045		
	10/15/2025	10:15	19-21	29.6	3.7	80.0	120.0	40.0	11	40	11					0.045		
	10/15/2025	11:03	21-23	35.5	3.0	120.0	160.0	40.0	11	40	11					0.045		
	10/15/2025	11:13	23-25	34.5	3.3	160.0	200.0	40.0	11	40	11					0.045	IP-4-3 surfacing, slowing down to assess	
	10/15/2025	11:30	25-27	32.3	3.5	200.0	240.0	40.0	11	40	11					0.045		
	10/15/2025	12:04	27-29	37.5	3.5	240.0	280.0	40.0	11	40	11					0.045		
	10/15/2025	12:24	29-31	24.5	3.4	280.0	320.0	40.0	11	40	11					0.045		
	10/15/2025	12:59	31-33	24.1	3.5	320.0	360.0	40.0	11	40	11					0.045		
	10/15/2025	13:27	33-35	22.7	3.2	360.0	400.0	40.0	11	40	11					0.045		
IP-4-19	10/13/2025	10:59	35-33	14.2	2.4	0.0	40	40.0	11	40	11	400	106	400	106	0.045	Minor surfacing in problem area. Vacuumed up all liquid	2-Foot Screen
	10/13/2025	11:38	33-31	14.5	2.3	40.0	80	40.0	11	40	11					0.045		
	10/13/2025	12:01	31-29	24.8	2.4	80.0	120	40.0	11	40	11					0.045		
	10/13/2025	12:18	29-27	21.7	2.4	120.0	160	40.0	11	40	11					0.045		
	10/13/2025	12:41	27-25	21.1	2.9	160.0	200	40.0	11	40	11					0.045		
	10/13/2025	13:18	25-23	20.1	2.8	200.0	240	40.0	11	40	11					0.045		
	10/13/2025	13:57	23-21	18.4	2.9	240.0	280.0	40.0	11	40	11					0.045		
	10/13/2025	14:32	21-19	14.3	2.4	280.0	320.0	40.0	11	40	11					0.045	Surfacing in problem area starting again	
	10/13/2025	15:07	19-17	17.1	2.2	320.0	360.0	40.0	11	40	11					0.045		
	10/13/2025	15:45	17-15	16.2	2.2	360.0	400.0	40.0	11	40	11					0.045		
IP-4-20	10/24/2025	12:05	35-33	19.8	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/24/2025	12:31	33-31	22.9	2.3	40.0	80.0	40.0	11	40	11					0.045		
	10/24/2025	13:00	31-29	24.3	2.8	80.0	120.0	40.0	11	40	11					0.045		
	10/24/2025	13:29	29-27	22.3	3.2	120.0	160.0	40.0	11	40	11					0.045		
	10/24/2025	13:55	27-25	21.4	3.0	160.0	200.0	40.0	11	40	11					0.045		
	10/24/2025	14:24	25-23	21.3	3.4	200.0	240.0	40.0	11	40	11					0.045		
	10/24/2025	14:54	23-21	20.8	3.4	240.0	280.0	40.0	11	40	11					0.045		
	10/24/2025	15:22	21-19	20.5	3.5	280.0	320.0	40.0	11	40	11					0.045		
	10/24/2025	15:46	19-17	19.8	3.5	320.0	360.0	40.0	11	40	11					0.045		
	10/24/2025	16:04	17-15	18.9	3.5	360.0	400.0	40.0	11	40	11					0.045		
IP-4-21	10/29/2025	14:55	35-33	25.8	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/29/2025	15:23	33-31	25.2	2.5	40.0	80.0	40.0	11	40	11					0.045		
	10/29/2025	15:38	31-29	18.9	3.2	80.0	120.0	40.0	11	40	11					0.045		
	10/29/2025	14:03	29-27	12.5	1.4	120.0	160.0	40.0	11	40	11					0.045	Surfacing into problem area within gravel lot.	
	10/29/2025	16:37	27-25	12.2	1.1	160.0	187.0	27.0	7	27	7					0.045	Lifted up 2ft early due to instant surfacing about 12ft away	
	10/29/2025	17:08	25-23	14.5	1.5	187.0	220.0	33.0	9	33	9					0.045	Still surfacing pretty quickly. Going to abandon IP and finish the last 180 gallons tomorrow	
	10/30/2025	9:01	25-23	6.3	0.8	220.0	240.0	20.0	5	20	5						Still surfacing from new injection screen, going to trickle this IP and see if it improves	
	10/30/2025	9:56	23-21	3.4	1.1	240.0	280.0	40.0	11	40	11					0.045		
	10/30/2025	11:06	21-19	3.7	1.1	280.0	320.0	40.0	11	40	11					0.045		
	10/30/2025	12:09	19-17	5.5	1.3	320.0	360.0	40.0	11	40	11					0.045	Flowing a little better	
	10/30/2025	12:50	17-15	5.1	1.2	360.0	400.0	40.0	11	40	11					0.045		
IP-4-22	10/28/2025	9:31	15-17	22.4	2.4	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/28/2025	10:05	17-19	12.6	2.4	40.0	80.0	40.0	11	40	11					0.045		
	10/28/2025	10:40	19-21	25.1	2.6	80.0	122.0	42.0	11	42	11					0.045		
	10/28/2025	11:16	21-23	21.8	2.9	122.0	160.0	38.0	10	38	10					0.045		
	10/28/2025	11:44	23-25	25.4	2.9	160.0	200.0	40.0	11	40	11					0.045		
	10/28/2025	12:26	25-27	48.2	2.8	200.0	240.0	40.0	11	40	11					0.045		
	10/28/2025	13:08	27-29	33.7	2.7	240.0	280.0	40.0	11	40	11					0.045		
	10/28/2025	13:47	29-31	45.5	2.9	280.0	320.0	40.0	11	40	11					0.045		
	10/28/2025	14:20	31-33	38.9	2.3	320.0	360.0	40.0	11	40	11					0.045	Surfacing 13ft away in the gravel. Likely this IP but could be 4-26. Slowing pump	
	10/28/2025	13:12	33-35	29.7	1.5	360.0	400.0	40.0	11	40	11					0.045	Stopped surfacing once we advanced to this interval	
IP-4-23	10/24/2025	12:31	35-33	45.3	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/24/2025	13:00	33-31	23.8	2.8	40.0	80.0	40.0	11	40	11					0.045		
	10/24/2025	13:29	31-29	24.8	3.3	80.0	120.0	40.0	11	40	11					0.045		
	10/24/2025	13:55	29-27	24.3	3.1	120.0	160.0	40.0	11	40	11					0.045		
	10/24/2025	14:24	27-25	19.4	3.4	160.0	200.0	40.0	11	40	11					0.045		
	10/24/2025	14:55	25-23	16.8	3.4	200.0	240.0	40.0	11	40	11					0.045		
	10/24/2025	15:22	23-21	17.5	3.5	240.0	280.0	40.0	11	40	11					0.045		
	10/24/2025	15:45	21-19	19.8	3.6	280.0	320.0	40.0	11	40	11					0.045		
	10/24/2025	16:03	19-17	21.8	3.6	320.0	380.0	60.0	16	60	16					0.045		
	10/24/2025	16:23	17-15	19.9	3.6	380.0	400.0	20.0	5	20	5					0.045		
IP-4-24	10/29/2025	14:55	35-33	31.2	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/29/2025	15:24	33-31	29.2	2.5	40.0	80.0	40.0	11	40	11					0.045		
	10/29/2025	15:37	31-29	27.6	3.1	80.0	120.0	40.0	11	40	11					0.045		
	10/29/2025	14:03	29-27	30.7	3.1	120.0	160.0	40.0	11	40	11					0.045		
	10/29/2025	16:37	27-25	33.6	3.2	160.0	200.0	40.0	11	40	11					0.045		
	10/29/2025	17:05	25-23	31.5	3.2	200.0	240.0	40.0	11	40	11					0.045		
	10/29/2025	17:28	23-21	30.5	3.5	240.0	280.0	40.0	11	40	11					0.045		
	10/29/2025	17:45	21-19	36.4	3.4	280.0	320.0	40.0	11	40	11					0.045		
	10/29/2025	18:04	19-17	27.8	3.4	320.0	360.0	40.0	11	40	11					0.045		
	10/29/2025	18:19	17-15	25.3	3.4	360.0	400.0	40.0	11	40	11					0.045		
IP-4-25	10/27/2025	10:49	35-33	26.3	1.7	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045	-	2-Foot Screen
	10/27/2025	11:35	33-31	135.0	0.4	40.0	56.0	16.0	4	16	4					-	8 gallons into this interval at 1.9 GPM was flowing. Physically witnessed the pressure change from 23 psi @ 1.9 GPM slowly rise to 135 psi @ 0.4 GPM. Likely clogged from heaving sands. Going to start using top-down tools in the driveway area or Barrier 4. Pulling and resetting with a top-down tool	
	10/27/2025	12:12	15-17	26.3	1.8	0.0	40.0	40.0	11	40	11					0.045		2-Foot Exposed Port
	10/27/2025	12:51	17-19	22.8	2.5	40.0	80.0	40.0	11	40	11					0.045		
	10/27/2025	13:29	19-21	31.2	3.0	80.0	120.0	40.0	11	40	11					0.045		
	10/27/2025	13:58	21-23	18.6	3.0	120.0	160.0	40.0	11	40	11					0.045		
	10/27/2025	14:15	23-25	12.3	2.5	160.0	200.0	40.0	11	40	11					0.045		
	10/27/2025	15:00	25-27	17.3	2.6	200.0	240.0	40.0	11	40	11					0.045		
	10/27/2025	15:24	27-29	30.5	2.7	240.0	280.0	40.0	11	40	11					0.045	Some surfacing from the MW casing roughly 12ft away	
	10/27/2025	15:43	29-31	24.8	2.4	280.0	320.0	40.0	11	40	11					0.045	Air fizzling out from around MW casing. Slowing down	
	10/27/2025	16:13	31-33	16.4	2.3	320.0	344.0	24.0	6	24	6					0.045		
IP-4-26	10/28/2025	9:31	15-17	34.2	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/28/2025	10:05	17-19	20.7	2.4	40.0	80.0	40.0	11	40	11					0.045		
	10/28/2025	10:40	19-21	25.1	2.6	80.0	121.0	41.0	11	41	11					0.045		
	10/28/2025	11:16	21-23	22.9	2.9	121.0	160.0	39.0	10	39	10					0.045		
	10/28/2025	11:45	23-25	38.4	3.0	160.0	200.0	40.0	11	40	11					0.045		
	10/28/2025	12:26	25-27	78.2	2.7	200.0	240.0	40.0	11	40	11					0.045		
	10/28/2025	13:08	27-29	38.4	2.8	240.0	280.0	40.0	11	40	11					0.045		
	10/28/2025	13:48	29-31	56.5	2.8	280.0	320.0	40.0	11	40	11					0.045		
	10/28/2025	14:20	31-33	59.6	2.3	320.0	360.0	40.0	11	40	11					0.045		
	10/28/2025	16:00	33-35	47.2	1.5	360.0	400.0	40.0	11	40	11					0.045		

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #4
Appendix B: Table 4

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-4-27	10/24/2025	12:45	35-33	77.2	2.4	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/24/2025	13:30	33-31	26.6	3.3	40.0	80.0	40.0	11	40	11					0.045		
	10/24/2025	13:55	31-29	27.4	3.1	80.0	120.0	40.0	11	40	11					0.045		
	10/24/2025	14:24	29-27	24.3	3.4	120.0	160.0	40.0	11	40	11					0.045		
	10/24/2025	14:55	27-25	18.7	3.4	160.0	200.0	40.0	11	40	11					0.045		
	10/24/2025	15:23	25-23	22.5	3.5	200.0	240.0	40.0	11	40	11					0.045		
	10/24/2025	15:46	23-21	21.6	3.5	240.0	280.0	40.0	11	40	11					0.045		
	10/24/2025	16:03	21-19	23.9	3.5	280.0	320.0	40.0	11	40	11					0.045		
	10/24/2025	16:23	19-17	19.7	3.6	320.0	360.0	40.0	11	40	11					0.045		
	10/24/2025	16:48	17-15	21.2	3.5	360.0	400.0	40.0	11	40	11					0.045		
IP-4-28	10/27/2025	10:48	35-33	22.7	1.9	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Screen
	10/27/2025	11:34	33-31	24.6	2.4	40.0	80.0	40.0	11	40	11					0.045		
	10/27/2025	12:23	31-29	23.9	2.8	80.0	120.0	40.0	11	40	11					0.045		
	10/27/2025	12:51	29-27	20.1	2.9	120.0	160.0	40.0	11	40	11					0.045		
	10/27/2025	13:14	27-25	18.4	3.1	160.0	200.0	40.0	11	40	11					0.045		
	10/27/2025	13:38	25-23	21.6	3.2	200.0	240.0	40.0	11	40	11					0.045		
	10/27/2025	13:58	23-21	16.1	3.1	240.0	280.0	40.0	11	40	11					0.045		
	10/27/2025	14:15	21-19	11.8	2.6	280.0	320.0	40.0	11	40	11					0.045		
	10/27/2025	15:01	19-17	15.2	2.6	320.0	360.0	40.0	11	40	11					0.045	Surfacing from rod annulus at the end of the interval. Going to try 1 gpm next pull since were still active on 4-25	
	10/27/2025	15:55	17-15	2.4	1.1	360.0	400.0	40.0	11	40	11					0.045		
IP-4-29	10/29/2025	9:03	15-17	42.2	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/29/2025	10:03	17-19	40.5	2.4	40.0	80.0	40.0	11	40	11					0.045		
	10/29/2025	10:14	19-21	37.4	2.5	80.0	120.0	40.0	11	40	11					0.045		
	10/29/2025	10:42	21-23	78.4	2.9	120.0	160.0	40.0	11	40	11					0.045		
	10/29/2025	10:59	23-25	94.3	2.3	160.0	200.0	40.0	11	40	11					0.045	Pressure seems to be building	
	10/29/2025	11:29	25-27	37.6	3.4	200.0	240.0	40.0	11	40	11					0.045	Flowing fine now	
	10/29/2025	11:58	27-29	32.6	3.3	240.0	280.0	40.0	11	40	11					0.045		
	10/29/2025	12:33	29-31	39.3	3.2	280.0	320.0	40.0	11	40	11					0.045		
	10/29/2025	12:57	31-33	41.5	3.2	320.0	360.0	40.0	11	40	11					0.045		
	10/29/2025	13:26	33-35	40.4	2.9	360.0	400.0	40.0	11	40	11					0.045		
IP-4-30	10/29/2025	9:04	15-17	23.1	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/29/2025	9:27	17-19	32.1	2.4	40.0	80.0	40.0	11	40	11					0.045		
	10/29/2025	10:03	19-21	27.9	2.5	80.0	120.0	40.0	11	40	11					0.045		
	10/29/2025	10:42	21-23	87.4	2.9	120.0	160.0	40.0	11	40	11					0.045		
	10/29/2025	10:59	23-25	35.2	3.0	160.0	200.0	40.0	11	40	11					0.045		
	10/29/2025	11:29	25-27	43.6	3.4	200.0	240.0	40.0	11	40	11					0.045		
	10/29/2025	11:58	27-29	40.4	3.4	240.0	280.0	40.0	11	40	11					0.045		
	10/29/2025	12:33	29-31	37.6	3.3	280.0	320.0	40.0	11	40	11					0.045		
	10/29/2025	12:56	31-33	34.8	3.2	320.0	360.0	40.0	11	40	11					0.045		
	10/29/2025	13:26	33-35	43.6	2.8	360.0	400.0	40.0	11	40	11					0.045		
IP-4-31	10/29/2025	14:55	15-17	54.9	2.3	0.0	40.0	40.0	11	40	11	400	106	400	106	0.045		2-Foot Exposed Port
	10/29/2025	15:24	17-19	47.5	2.5	40.0	80.0	40.0	11	40	11					0.045		
	10/29/2025	15:37	19-21	53.6	3.2	80.0	120.0	40.0	11	40	11					0.045		
	10/29/2025	14:03	21-23	49.2	3.0	120.0	160.0	40.0	11	40	11					0.045		
	10/29/2025	16:37	23-25	53.4	3.1	160.0	200.0	40.0	11	40	11					0.045		
	10/29/2025	17:04	25-27	65.9	3.2	200.0	240.0	40.0	11	40	11					0.045		
	10/29/2025	17:28	27-29	74.2	3.5	240.0	280.0	40.0	11	40	11					0.045		
	10/29/2025	17:45	29-31	63.9	3.5	280.0	320.0	40.0	11	40	11					0.045		
	10/29/2025	18:04	31-33	83.4	3.4	320.0	360.0	40.0	11	40	11					0.045		
	10/29/2025	18:19	33-35	95.6	3.3	360.0	400.0	40.0	11	40	11					0.045		

Total Gallons:	Total Lbs. of S-Micro ZVI	Total Lbs. of PlumeStop	Total Lbs. of AquiFix	Total Liters of BDI
12520.0	3300.0	12400.0	3300.0	14.0

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #5
Appendix B: Table 5

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
	10/3/2025	11:23	51-49	52.7	2.3	0.0	50	50.0	11	32	0					0.045		
	10/3/2025	11:54	49-47	58.1	3.5	50.0	100	50.0	11	32	0					0.045		
	10/3/2025	12:13	47-45	59.6	4.1	100.0	150	50.0	11	32	0					0.045		
	10/3/2025	12:42	45-43	47.7	4.4	150.0	200	50.0	11	32	0					0.045		
	10/3/2025	12:59	43-41	39.7	3.8	200.0	250	50.0	11	32	0					0.045		
IP-5-1	10/3/2025	13:29	41-39	26.0	3.4	250.0	300	50.0	11	32	0	650	138	420	0	0.045	Surfacing in problem area roughly 65ft away	2-Foot Screen
	10/3/2025	14:43	39-37	3.2	1.0	300.0	329.0	29.0	6	19	0					0.045	Still surfacing	
	10/6/2025	10:04	39-37	8.4	2.5	329.0	351.0	22.0	5	14	0							
	10/6/2025	10:23	37-35	14.4	3.3	351.0	450.8	99.8	21	64	0					0.090	Extra volume from IP-5-9 & 5-15	
	10/6/2025	10:55	35-33	23.6	3.4	450.8	550.7	99.8	21	64	0					0.090	Extra volume from IP-5-9 & 5-15	
	10/6/2025	11:10	33-31	27.4	5.4	550.7	650.5	99.8	21	64	0					0.090	Extra volume from IP-5-9 & 5-15	
	10/1/2025	10:24	51-49	125.0	3.9	0.0	70.0	70.0	11	32	0					0.045	Low flow on initial pull (1.7 GPM at 140 psi). Let it run for 5 minutes. Flowing better now.	
	10/1/2025	11:07	49-47	74.5	4.4	70.0	141.0	71.0	11	33	0					0.045		
	10/1/2025	11:28	47-45	74.6	4.3	141.0	210.0	69.0	10	32	0					0.045		
	10/1/2025	12:11	45-43	96.1	4.5	210.0	280.0	70.0	11	32	0					0.045		
IP-5-2	10/1/2025	12:35	43-41	55.6	4.1	280.0	350.0	70.0	11	32	0	700	106	323	0	0.045		2-Foot Screen
	10/1/2025	12:57	41-39	50.4	4.6	350.0	420.0	70.0	11	32	0					0.045		
	10/1/2025	13:34	39-37	31.6	4.7	420.0	491.0	71.0	11	33	0					0.045		
	10/1/2025	13:59	37-35	28.1	4.5	491.0	560.0	69.0	10	32	0					0.045		
	10/1/2025	14:34	35-33	16.6	3.0	560.0	630.0	70.0	11	32	0					0.045		
	10/1/2025	15:05	33-31	14.6	3.4	630.0	700.0	70.0	11	32	0					0.045		
	9/30/2025	10:19	51-49	87.7	3.6	0.0	70	70.0	11	32	0					0.045	Low flow on initial pull (1.7 GPM at 120 psi). Raised pump to 145 psi and let it run for 3 minutes. Flowing better now.	
	9/30/2025	11:01	49-47	48.6	4.6	70.0	143	73.0	11	34	0					0.045		
	9/30/2025	11:23	47-45	84.7	5.0	143.0	211	68.0	10	31	0					0.045		
	9/30/2025	11:43	45-43	67.8	4.9	211.0	281	70.0	11	32	0					0.045		
IP-5-3	9/30/2025	12:18	43-41	42.3	5.1	281.0	350	69.0	10	32	0	700	106	323	0	0.045		2-Foot Screen
	9/30/2025	12:42	41-39	38.1	5.4	350.0	420	70.0	11	32	0					0.045		
	9/30/2025	13:16	39-37	52.8	5.2	420.0	490.0	70.0	11	32	0					0.045		
	9/30/2025	13:35	37-35	29.7	5.1	490.0	560.0	70.0	11	32	0					0.045		
	9/30/2025	14:02	35-33	20.1	4.5	560.0	631.0	71.0	11	33	0					0.045		
	10/1/2025	14:25	33-31	18.1	4.7	631.0	700.0	69.0	10	32	0					0.045		
	10/2/2025	10:17	51-49	114.3	3.0	0.0	70.0	70.0	11	32	0					0.045	Flow rates are fine but again, high pressures in this area	
	10/2/2025	10:53	49-47	94.6	3.0	70.0	140.0	70.0	11	32	0					0.045		
	10/2/2025	11:27	47-45	54.3	4.1	140.0	210.0	70.0	11	32	0					0.045		
	10/2/2025	11:28	45-43	47.6	4.3	210.0	279.0	69.0	10	32	0					0.045		
	10/2/2025	12:23	43-41	23.2	4.7	279.0	350.0	71.0	11	33	0					0.045		
IP-5-4	10/2/2025	12:47	41-39	23.2	5.2	350.0	420.0	70.0	11	32	0	660	106	323	0	0.045		2-Foot Screen
	10/2/2025	13:34	39-37	18.2	4.6	420.0	490.0	70.0	11	32	0					0.045		
	10/2/2025	13:49	37-35	19.8	4.1	490.0	560.0	70.0	11	32	0					0.045		
	10/2/2025	15:16	35-33	11.7	1.8	560.0	610.0	50.0	11	32	0					0.045	Reduced water volume by 10 gallons per foot. Same amount as designed product	
	10/2/2025	15:44	33-31	14.6	2.5	610.0	660.0	50.0	11	32	0					0.045	Reduced water volume by 10 gallons per foot. Same amount as designed product	
	10/3/2025	11:23	51-49	119.8	2.2	0.0	50	50.0	11	32	0					0.045		
	10/3/2025	11:54	49-47	49.6	3.5	50.0	100	50.0	11	32	0					0.045	Pressures settled after lifting to next treatment interval	
	10/3/2025	12:14	47-45	41.0	4.1	100.0	150	50.0	11	32	0					0.045		
	10/3/2025	12:42	45-43	44.5	4.5	150.0	200	50.0	11	32	0					0.045		
	10/3/2025	13:00	43-41	25.3	3.7	200.0	250	50.0	11	32	0					0.045		
IP-5-5	10/3/2025	13:29	41-39	29.5	3.5	250.0	300	50.0	11	32	0	649	138	419	0	0.045	Surfacing in problem area roughly 53ft away	2-Foot Screen
	10/3/2025	14:43	39-37	8.7	1.0	300.0	328.0	28.0	6	18	0					0.045	Still surfacing	
	10/6/2025	9:32	39-37	16.1	2.0	328.0	350.0	22.0	5	14	0						Let this IP rest over the weekend. Seems to be accepting volume	
	10/6/2025	10:23	37-35	12.7	3.4	350.0	449.8	99.8	21	64	0					0.045		
	10/6/2025	10:56	35-33	25.1	3.4	449.8	549.7	99.8	21	64	0					0.113	Extra volume from IP-5-9 & 5-15	
	10/6/2025	11:10	33-31	31.6	5.5	549.7	649.5	99.8	21	64	0					0.113	Extra volume from IP-5-9 & 5-15	
	10/1/2025	10:24	51-49	99.2	3.0	0.0	70.0	70.0	11	32	0					0.045	Didn't need high pressure on initial lift but this area of the barrier is clearly tighter lithology	
	10/1/2025	11:07	49-47	112.7	4.1	70.0	141.0	71.0	11	33	0					0.045		
	10/1/2025	11:28	47-45	73.1	4.5	141.0	210.0	69.0	10	32	0					0.045		
	10/1/2025	12:10	45-43	46.5	4.4	210.0	280.0	70.0	11	32	0					0.045		
IP-5-6	10/1/2025	12:35	43-41	32.5	4.3	280.0	350.0	70.0	11	32	0	700	106	323	0	0.045		2-Foot Screen
	10/1/2025	12:56	41-39	36.5	4.5	350.0	420.0	70.0	11	32	0					0.045		
	10/1/2025	13:34	39-37	30.7	4.6	420.0	490.0	70.0	11	32	0					0.045		
	10/1/2025	13:59	37-35	28.8	4.5	490.0	560.0	70.0	11	32	0					0.045		
	10/1/2025	14:34	35-33	20.3	3.1	560.0	630.0	70.0	11	32	0					0.045		
	10/1/2025	15:05	33-31	21.1	3.4	630.0	700.0	70.0	11	32	0					0.045		
	10/14/2025	9:14	31-33	90.1	2.0	0.0	50	50.0	11	32	0					0.045	First IP to try a 2ft internal exposed port screen (top-down)	
	10/14/2025	9:45	33-35	74.2	2.4	50.0	100	50.0	11	32	0					0.045	Back pressure when advancing rods. Need to let it rest for a moment	
	10/14/2025	9:59	35-37	38.0	3.2	100.0	150	50.0	11	32	0					0.045		
	10/14/2025	10:31	37-39	45.6	2.9	150.0	200	50.0	11	32	0					0.045	Leaking from rod annunlus. Packing with bentonite	
IP-5-7	10/14/2025	11:17	39-41	85.5	1.0	200.0	215	15.0	3	10	0	500	106	323	0	0.045	Re-drilled IP @ 215 total gal about 12" down-gradient; steady flow @ 3.0 gpm and 34.9 PSI	2-Foot Exposed Port
	10/14/2025	12:35	39-41	40.0	2.9	215.0	250	35.0	7	23	0						Flowing	
	10/14/2025	13:57	41-43	82.4	3.0	250.0	300	50.0	11	32	0					0.045	Back pressure when advancing rods even after a few moments halted	
	10/14/2025	14:13	43-45	81.7	2.3	300.0	350	50.0	11	32	0					0.045		
	10/14/2025	14:51	45-47	104.0	2.0	350.0	400	50.0	11	32	0					0.045	High pressure.	
	10/14/2025	15:20	47-49	97.0	2.3	400.0	450	50.0	11	32	0					0.045		
	10/14/2025	15:48	49-51	64.0	1.5	450.0	500	50.0	11	32	0					0.452		
	10/2/2025	10:17	51-49	59.2	3.0	0.0	70.0	70.0	11	32	0					0.045	Flow rates are fine but again, high pressures in this area	
	10/2/2025	10:51	49-47	48.4	3.2	70.0	141.0	71.0	11	33	0					0.045		
	10/2/2025	11:28	47-45	49.1	4.4	141.0	210.0	69.0	10	32	0					0.045		
	10/2/2025	12:01	45-43	29.6	4.5	210.0	280.0	70.0	11	32	0					0.045		
	10/2/2025	12:23	43-41	30.1	4.8	280.0	351.0	71.0	11	33	0					0.045		
IP-5-8	10/2/2025	12:47	41-39	28.8	5.1	351.0	420.0	69.0	10	32	0	660	106	323	0	0.045		2-Foot Screen
	10/2/2025	13:34	39-37	22.4	4.5	420.0	490.0	70.0	11	32	0					0.045		
	10/2/2025	13:49	37-35	25.2	4.0	490.0	560.0	70.0	11	32	0					0.045		
	10/2/2025	15:16	35-33	14.5	2.0	560.0	610.0	50.0	11	32	0					0.045	Reduced water volume by 10 gallons per foot. Same amount as designed product	
	10/2/2025	15:44	33-31	16.4	2.4	610.0	660.0	50.0	11	32	0					0.045	Reduced water volume by 10 gallons per foot. Same amount as designed product	
	10/3/2025	11:24	51-49	118.4	2.2	0.0	50	50.0	11	32	0					0.045		
	10/3/2025	11:55	49-47	48.9	3.6	50.0	100	50.0	11	32	0					0.045	Pressures settled after lifting to next treatment interval	
	10/3/2025	12:14	47-45	65.4	4.2	100.0	150	50.0	11	32	0					0.045		
	10/3/2025	12:42	45-43	30.9	4.4	150.0	200	50.0	11	32	0					0.045		
	10/3/2025	13:00	43-41	25.1	3.6	200.0	250	50.0	11	32	0					0.045		
IP-5-9	10/3/2025	13:28	41-39	24.2	3.5	250.0	292	42.0	9	27	0	364	77	235	0	0.045	Surfacing in problem area	2-Foot Screen
	10/3/2025	14:43	39-37	6.1	0.9	292.0	318.0	26.0	6	17	0					0.045	Still surfacing	
	10/6/2025	9:33	39-37	4.4	1.0	318.0	351.0	33.0	7	21	0						Let this IP rest over the weekend.Surfacing at 1 GPM	
	10/6/2025	9:55	37-35	4.7	1.0	351.0	364.0	13.0	3	8	0					-	Still surfacing, putting reamining volume into IP-5-1 & 5-5	
	10/6/2025	9:55	35-33	-	-	-	-	-	-	-	-					-		
	10/6/2025	9:55	33-31	-	-	-	-	-	-	-	-					-		
	10/1/2025	10:24	51-49	60.4	3.3	0.0	70.0	70.0	11	32	0					0.045		
	10/1/2025	11:06	49-47	42.0	5.0	70.0	140.0	70.0	11	32	0					0.045		
	10/1/2025	11:28	47-45	36.4	4.2	140.0	211.0	71.0	11	33	0					0.045		
	10/1/2025	12:10	45-43	33.4	4.4	211.0	280.0	69.0	10	32	0					0.045		
IP-5-10	10/1/2025	12:35	43-41	28.6	4.2	280.0	350.0	70.0	11	32	0	700	106	323	0	0.045		
	10/1/2025	12:56	41-39	37.2	4.6	350.0	420.0	70.0	11	32	0					0.045		
	10/1/2025	13:34	39-37	30.5	4.7	420.0	489.0	69.0	10	32	0					0.045		
	10/1/2025	13:59	37-35	28.2	4.6	489.0	560.0	71.0	11	33	0					0.045		
	10/1/2025	14:33	35-33	19.0	3.1	560.0	630.0	70.0	11	32	0					0.045		
	10/1/2025	15:05	33-31	18.5	3.8	630.0	700.0	70.0	11	32	0					0.045		
	9/30/2025	10:19	51-49	64.4	3.8	0.0	70	70.0	11	32	0					0.045	Breakthrough at 55 psi right away	
	9/30/2025	11:01	49-47	48.4	4.9	70.0	140	70.0	11	32	0					0.045		
	9/30/2025	11:23	47-45	41.6	5.0	140.0	212	72.0	11	33	0					0.045		
	9/30/2025	11:43	45-43	48.9	4.8	212.0	280	68.0	10	31	0					0.045		
IP-5-11	9/30/2025	12:18	43-41	41.7	5.2	280.0	352	72.0	11	33	0	700	106	323	0	0.045		2-Foot Screen
	9/30/2025	12:42	41-39	38.6	5.1	352.0	420	68.0	10	31	0					0.045		
	9/30/2025	13:16	39-37	30.6	5.0	420.0	490.0	70.0	11	32	0					0.045		
	9/30/2025	13:35	37-35	29.0	5.0	490.0	560.0	70.0	11	32	0					0.045		
	9/30/2025	14:02	35-33	24.4	4.5	560.0	630.0	70.0	11	32	0					0.045		
	10/1/2025	14:25	33-31	20.7	4.6	630.0	700.0	70.0	11	32	0					0.045		
	10/2/2025	10:17	51-49	42.1	2.9	0.0	71.0	71.0	11	33	0					0.045		
	10/2/2025	10:52	49-47	35.1	3.2	71.0	140.0	69.0	11	32	0					0.045		
	10/2/2025	11:28	47-45	49.3	4.4	140.0	211.0	71.0	10	32	0					0.045		
	10/2/2025	12:01	45-43	30.0	4.4	211.0	281.0	70.0	11	32	0					0.045		
	10/2/2025	12:23	43-41	31.5	4.7	281.0	350.0	69.0	11	32	0					0.045		
IP-5-12	10/2/2025	12:47	41-39	36.8	5.2	350.0	420.0	70.0	11	32	0	660	107	323	0	0.045		2-Foot Screen
	10/2/2025	13:34	39-37	28.7	4.8	420.0	490.0	70.0	11	32	0					0.045		
	10/2/2025	13:49	37-35	26.4	4.0	490.0	541.0	51.0	11	32	0					0.045	Isolated point after turning IP-18 off. Immediate surfacing 30' away.	
	10/2/2025	14:22	35-33	7.4	1.3	541.0	576.0	35.0	6	19	0					0.045	Reduction of 20 gpf. Still causing surfacing after reduction of gpf	
	10/2/2025	15:29	33-31	6.7	1.1	576.0	591.0	15.0	3	8	0					0.045	Lifted to top. Immedatley surfacing	
	10/3/2025	15:29	33-31	20.1	2.4	591.0	660.0	69.0	12	38	0						Continuation from day before	
	10/16/2025	9:12	31-33	42.7	3.0	0.0	50	50.0	11	32	0					0.045		
	10/16/2025	10:05	33-35	37.2	3.2	50.0	100	50.0	11	32	0					0.045		
	10/16/2025	10:20	35-37	35.9	3.3	100.0	150	50.0	11	32	0					0.045		
	10/16/2025	10:40	37-39	27.8	3.3	150.0	200	50.0	11	32	0					0.045		
IP-5-13	10/16/2025	10:59	39-41	20.8	3.2	200.0	250	50.0	11	32	0	500	106	323	0	0.045	Isolated points. Immediate surfacing 35' away in problem area (224 gallons). Flowing at 1.1 gpm with no surfacing.	2-Foot Exposed Port
	10/16/2025	12:01	41-43	7.5	1.5	250.0	300	50.0	11	32	0					0.045		
	10/16/2025	12:36	43-45	21.8	2.3	300.0	350	50.0	11	32	0					0.045		
	10/16/2025	13:04	45-47	27.2	3.0	350.0	400	50.0	11	32	0					0.045	No more surfacing in problem area	
	10/16/2025	13:40	47-49	33.8	3.4	400.0	450	50.0	11	32	0					0.045		
	10/16/2025	14:14	49-51	94.5	2.5	450.0	500	50.0	11	32	0					0.045	As most of these top-downs have gone, high pressure at the bottom interval	

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #5
Appendix B: Table 5

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
IP-5-14	10/1/2025	10:25	51-49	38.6	3.1	0.0	70.0	70.0	11	32	0	700	106	323	0	0.045		2-Foot Screen
	10/1/2025	11:06	49-47	37.8	4.9	70.0	140.0	70.0	11	32	0					0.045		
	10/1/2025	11:27	47-45	36.5	4.0	140.0	211.0	71.0	11	33	0					0.045		
	10/1/2025	12:10	45-43	40.9	4.5	211.0	280.0	69.0	10	32	0					0.045		
	10/1/2025	12:35	43-41	34.0	4.1	280.0	350.0	70.0	11	32	0					0.045		
	10/1/2025	12:56	41-39	34.6	4.7	350.0	420.0	70.0	11	32	0					0.045		
	10/1/2025	13:35	39-37	31.6	4.5	420.0	490.0	70.0	11	32	0					0.045		
	10/1/2025	13:59	37-35	28.7	4.4	490.0	506.0	16.0	2	7	0					0.045	Surfacing from cracks in surface 28' away from this injection point. Lifted to next interval after 16 total gallons injected to this interval	
	10/1/2025	14:44	35-33	8.5	3.7	506.0	630.0	124.0	19	57	0					0.045	Slowly ramped up GPM from 1 to 4 GPM whilst injecting on all active IP's. Surfacing non-existent now. All volume from this IP at 37-35' bgs. Added to 35-33' bgs. Interval	
	10/1/2025	15:05	33-31	2.5	3.7	630.0	700.0	70.0	11	32	0					0.045		
IP-5-15	10/3/2025	11:24	51-49	41.2	2.1	0.0	50	50.0	11	32	0	337	72	217	0	0.045		2-Foot Screen
	10/3/2025	11:55	49-47	35.1	3.5	50.0	100	50.0	11	32	0					0.045		
	10/3/2025	12:14	47-45	41.5	4.1	100.0	149	49.0	10	32	0					0.045		
	10/3/2025	12:43	45-43	33.7	4.5	149.0	200	51.0	11	33	0					0.045		
	10/3/2025	13:00	43-41	28.1	3.2	200.0	250	50.0	11	32	0					0.045	Getting into the problem zone. Reducing flowrates across all IP's	
	10/3/2025	13:28	41-39	12.3	3.2	250.0	285	35.0	7	23	0					0.045	Surfacing in problem area	
	10/3/2025	14:42	39-37	4.5	1.0	285.0	307.0	22.0	5	14	0					0.045	Still surfacing	
	10/6/2025	9:39	39-37	3.7	0.9	307.0	329.0	22.0	5	14	0						Let this IP rest over the weekend.Surfacing at 1 GPM. Struggling to accept product here. Bouncing around IP's to see which can take what	
	10/6/2025	9:54	37-35	2.1	0.9	329.0	337.0	8.0	2	5	0					-	Still surfacing, putting reamining volume into IP-5-1 & 5-5	
	10/6/2025	9:56	35-33	-	-	-	-	-	-	-	-					-		
	10/6/2025	9:56	33-31	-	-	-	-	-	-	-	-					-		
IP-5-16	10/7/2025	13:44	31.5	94.2	1.8	0.0	25.0	25.0	5	16	0	500	106	323	0	0.023	Trying out the top-down pressure activated probe on this IP by itself. No other active points. Probe opened at activated at 65 psi. **MW-34D saw 800 mgc/L before injections started**	Pressure Activated Probe
	10/7/2025	13:55	32.5	78.9	2.5	25.0	50.0	25.0	5	16	0					0.023	So far so good.	
	10/7/2025	14:12	33.5	72.8	3.1	50.0	75.0	25.0	5	16	0					0.023		
	10/7/2025	14:18	34.5	91.0	3.2	75.0	100.0	25.0	5	16	0					0.023	Trying to see if higher flows will surface.	
	10/7/2025	14:32	35.5	117.0	3.0	100.0	125.0	25.0	5	16	0					0.023	Pressures rising	
	10/7/2025	14:39	36.5	114.5	3.0	125.0	150.0	25.0	5	16	0					0.023		
	10/7/2025	14:49	37.5	94.0	2.2	150.0	175.0	25.0	5	16	0					0.023	Slight leak from rod-string. Tightened and injections resumed	
	10/7/2025	15:03	38.5	88.9	3.5	175.0	200.0	25.0	5	16	0					0.023	Haven't been altering pump speed. Flows and pressures different by zone	
	10/7/2025	15:13	39.5	86.3	3.4	200.0	225.0	25.0	5	16	0					0.023		
	10/7/2025	15:28	40.5	61.6	3.5	225.0	250.0	25.0	5	16	0					0.023		
	10/7/2025	15:29	41.5	58.4	4.0	250.0	275.0	25.0	5	16	0					0.023		
	10/7/2025	15:50	42.5	137.8	2.3	275.0	300.0	25.0	5	16	0					0.023	Pressure slowly raising and gpf lowering together (102psi @ 3.3 GPM --> 135 psi @ 2.4 GPM)	
	10/7/2025	16:04	43.5	140.0	2.5	300.0	325.0	25.0	5	16	0					0.023		
	10/7/2025	16:12	44.5	144.0	2.1	325.0	350.0	25.0	5	16	0					0.023		
	10/7/2025	16:21	45.5	147.3	1.8	350.0	375.0	25.0	5	16	0					0.023	Still high pressure and lowering flow. All limiting possibilites checked on RRS end	
	10/7/2025	16:33	46.5	137.2	2.5	375.0	400.0	25.0	5	16	0					0.023	MW-34D saw 2,000 mgc/L at 375 total gallons injected	
	10/7/2025	16:44	47.5	152.0	3.2	400.0	425.0	25.0	5	16	0					0.023		
	10/7/2025	16:57	48.5	165.8	2.5	425.0	450.0	25.0	5	16	0					0.023	Still very high pressure and low flow. Tried forcing it through but hardly helped	
	10/7/2025	17:09	49.5	180.0	3.0	450.0	475.0	25.0	5	16	0					0.023		
	10/7/2025	17:19	50.5	185.0	3.2	475.0	500.0	25.0	5	16	0					0.023		
IP-5-17	10/17/2025	9:01	31-33	43.2	3.0	0.0	50	50.0	11	32	0	500	106	323	0	0.045		2-Foot Exposed Port
	10/17/2025	9:26	33-35	25.2	3.3	50.0	100	50.0	11	32	0					0.045		
	10/17/2025	9:43	35-37	42.8	3.0	100.0	150	50.0	11	32	0					0.045		
	10/17/2025	10:09	37-39	51.2	3.0	150.0	200	50.0	11	32	0					0.045		
	10/17/2025	10:42	39-41	45.3	2.5	200.0	250	50.0	11	32	0					0.045	Pumping a bit slower since we were surfacing at this interval yesterday. Flowing fine so far	
	10/17/2025	11:04	41-43	36.2	2.5	250.0	300	50.0	11	32	0					0.045		
	10/17/2025	11:18	43-45	45.8	3.0	300.0	350	50.0	11	32	0					0.045		
	10/17/2025	11:41	45-47	62.0	2.9	350.0	400	50.0	11	32	0					0.045		
	10/17/2025	11:59	47-49	85.9	3.0	400.0	450	50.0	11	32	0					0.045	Pressures starting to build	
	10/17/2025	12:20	49-51	41.5	3.1	450.0	500	50.0	11	32	0					0.045		
IP-5-18	10/2/2025	10:17	51-49	4.5	3.0	0.0	70.0	70.0	11	32	0	660	106	323	0	0.045	Groundwater at 4.8' from top of MW-34D casing at BoD	2-Foot Screen
	10/2/2025	10:52	49-47	4.6	3.2	70.0	140.0	70.0	11	32	0					0.045		
	10/2/2025	11:28	47-45	10.4	4.5	140.0	210.0	70.0	11	32	0					0.045	Seeing direct influence on MW-34D when starting and stopping this IP.	
	10/2/2025	12:01	45-43	18.7	4.5	210.0	279.0	69.0	10	32	0					0.045		
	10/2/2025	12:23	43-41	17.8	4.6	279.0	351.0	72.0	11	33	0					0.045		
	10/2/2025	12:47	41-39	17.7	4.5	351.0	420.0	69.0	10	32	0					0.045	Surfacing roughly 20' away in the same area as yesterday. Letting IP rest and reducing flow rate. Still surfacing, pulling 2' early	
	10/2/2025	13:35	39-37	9.8	3.0	420.0	433.0	13.0	2	6	0					0.045		
	10/2/2025	14:21	37-35	4.6	1.5	433.0	467.0	34.0	6	18	0					0.045	Reduction of 20 gpf. Still causing surfacing after reduction of gpf	
	10/2/2025	15:02	35-33	3.7	1.1	467.0	481.0	14.0	2	8	0					0.045		
	10/2/2025	15:34	33-31	3.5	1.0	481.0	497.0	16.0	3	9	0					0.045		
	10/3/2025	15:34	33-31	3.8	2.6	497.0	660.0	163.0	29	88	0						Continuation from day before	
IP-5-19	10/16/2025	9:34	31-33	32.8	3.0	0.0	50	50.0	11	32	0	500	106	323	0	0.045		2-Foot Exposed Port
	10/16/2025	10:03	33-35	24.1	2.8	50.0	100	50.0	11	32	0					0.045		
	10/16/2025	10:20	35-37	28.4	3.2	100.0	150	50.0	11	32	0					0.045		
	10/16/2025	10:41	37-39	34.2	3.6	150.0	200	50.0	11	32	0					0.045		
	10/16/2025	10:59	39-41	27.4	3.6	200.0	250	50.0	11	32	0					0.045	Isolated point. Flowing fine. MW-34D saw 6,000 mgc/l at this interval (225 gallons)	
	10/16/2025	11:54	41-43	33.2	3.1	250.0	300	50.0	11	32	0					0.045		
	10/16/2025	12:07	43-45	46.2	3.3	300.0	350	50.0	11	32	0					0.045		
	10/16/2025	12:36	45-47	35.5	3.5	350.0	400	50.0	11	32	0					0.045		
	10/16/2025	13:02	47-49	41.1	3.6	400.0	450	50.0	11	32	0					0.045		
	10/16/2025	13:30	49-51	44.6	3..4	450.0	500	50.0	11	32	0					0.045		
IP-5-20	10/8/2025	10:20	31.5	94.0	2.0	0.0	25.0	25.0	5	16	0	500	106	323	0	0.023		Pressure Activated Probe
	10/8/2025	10:54	32.5	91.0	2.2	25.0	50.0	25.0	5	16	0					0.023		
	10/8/2025	11:10	33.5	107.0	2.5	50.0	75.0	25.0	5	16	0					0.023		
	10/8/2025	11:37	34.5	98.0	2.4	75.0	100.0	25.0	5	16	0					0.023		
	10/8/2025	12:00	35.5	107.0	2.5	100.0	125.0	25.0	5	16	0					0.023		
	10/8/2025	12:16	36.5	116.0	2.6	125.0	150.0	25.0	5	16	0					0.023		
	10/8/2025	12:29	37.5	113.0	2.5	150.0	175.0	25.0	5	16	0					0.023		
	10/8/2025	12:41	38.5	119.0	2.5	175.0	200.0	25.0	5	16	0					0.023		
	10/8/2025	12:54	39.5	106.0	2.9	200.0	225.0	25.0	5	16	0					0.023		
	10/8/2025	13:10	40.5	65.0	3.3.	225.0	250.0	25.0	5	16	0					0.023		
	10/8/2025	13:27	41.5	87.0	3.4	250.0	275.0	25.0	5	16	0					0.023		
	10/8/2025	13:38	42.5	98.0	3.2	275.0	300.0	25.0	5	16	0					0.023		
	10/8/2025	13:51	43.5	150.0	2.3	300.0	325.0	25.0	5	16	0					0.023		
	10/8/2025	14:14	44.5	98.4	2.6	325.0	350.0	25.0	5	16	0					0.023		
	10/8/2025	14:39	45.5	112.0	2.7	350.0	375.0	25.0	5	16	0					0.023		
	10/8/2025	14:43	46.5	103.0	3.0	375.0	400.0	25.0	5	16	0					0.023		
	10/8/2025	15:00	47.5	124.0	2.4	400.0	425.0	25.0	5	16	0					0.023	Getting tight again like yesterday	
	10/8/2025	15:20	48.5	130.0	3.0	425.0	450.0	25.0	5	16	0					0.023		
	10/8/2025	15:31	49.5	105.7	2.5	450.0	475.0	25.0	5	16	0					0.023		
	10/8/2025	15:43	50.5	131.8	1.8	475.0	500.0	25.0	5	16	0					0.023		
IP-5-21	10/14/2025	13:33	31-33	70.1	3.0	0.0	50.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Exposed Port
	10/14/2025	13:57	33-35	35.5	3.5	50.0	100.0	50.0	11	32	0					0.045		
	10/14/2025	14:13	35-37	32.1	3.9	100.0	150.0	50.0	11	32	0					0.045		
	10/14/2025	14:32	37-39	34.5	3.9	150.0	200.0	50.0	11	32	0					0.045		
	10/14/2025	14:51	39-41	43.7	3.2	200.0	250.0	50.0	11	32	0					0.045		
	10/14/2025	15:07	41-43	29.5	3.3	250.0	300.0	50.0	11	32	0					0.045		
	10/14/2025	15:38	43-45	43.8	3.8	300.0	350.0	50.0	11	32	0					0.045		
	10/14/2025	16:01	45-47	32.1	3.7	350.0	400.0	50.0	11	32	0					0.045		
	10/14/2025	16:17	47-49	34.1	3.8	400.0	450.0	50.0	11	32	0					0.045		
	10/15/2025	16:40	49-51	32.2	3.4	450.0	500.0	50.0	11	32	0					0.045	Leaky rodstring. Breaking top 5ft rod.	
IP-5-22	10/14/2025	9:25	31-33	75.4	2.8	0.0	50.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Exposed Port
	10/14/2025	9:52	33-35	31.2	2.8	50.0	100.0	50.0	11	32	0					0.045		
	10/14/2025	10:17	35-37	15.7	3.1	100.0	150.0	50.0	11	32	0					0.045		
	10/14/2025	10:31	37-39	23.5	3.2	150.0	200.0	50.0	11	32	0					0.045		
	10/14/2025	11:03	39-41	42.0	3.2	200.0	250.0	50.0	11	32	0					0.045		
	10/14/2025	11:17	41-43	31.6	3.2	250.0	300.0	50.0	11	32	0					0.045		
	10/14/2025	11:41	43-45	33.7	3.9	300.0	350.0	50.0	11	32	0					0.045		
	10/14/2025	12:15	45-47	47.7	4.2	350.0	400.0	50.0	11	32	0					0.045		
	10/14/2025	12:25	47-49	38.1	3.9	400.0	450.0	50.0	11	32	0					0.045		
	10/14/2025	12:51	49-51	32.4	3.4	450.0	500.0	50.0	11	32	0					0.045	No surfacing in the problem area with this close IP.	
IP-5-23	10/16/2025	14:13	51-49	38.7	3.2	0.0	50.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Screen
	10/16/2025	14:37	49-47	32.5	3.4	50.0	100.0	50.0	11	32	0					0.045		
	10/16/2025	15:03	47-45	31.8	3.5	100.0	150.0	50.0	11	32	0					0.045		
	10/16/2025	15:27	45-43	31.7	4.0	150.0	200.0	50.0	11	32	0					0.045		
	10/16/2025	15:40	43-41	31.8	4.2	200.0	250.0	50.0	11	32	0					0.045		
	10/16/2025	15:54	41-39	29.1	3.9	250.0	300.0	50.0	11	32	0					0.045		
	10/16/2025	16:12	39-37	25.9	4.2	300.0	350.0	50.0	11	32	0					0.045		
	10/16/2025	16:33	37-35	30.6	4.2	350.0	400.0	50.0	11	32	0					0.045		
	10/16/2025	16:42	35-33	32.2	4.5	400.0	450.0	50.0	11	32	0					0.045		
	10/16/2025	16:58	33-31	28.4	4.6	450.0	500.0	50.0	11	32	0					0.045		
IP-5-24	10/17/2025	13:14	51-49	38.4	3.5	0.0	50.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Screen
	10/17/2025	13:28	49-47	32.3	3.5	50.0	100.0	50.0	11	32	0					0.045		
	10/17/2025	13:48	47-45	34.8	3.5	100.0	150.0	50.0	11	32	0					0.045		
	10/17/2025	14:10	45-43	31.7	3.8	150.0	200.0	50.0	11	32	0					0.045		
	10/17/2025	14:28	43-41	33.4	3.7	200.0	250.0	50.0	11	32	0					0.045		
	10/17/2025	14:51	41-39	30.4	3.7	250.0	300.0	50.0	11	32	0					0.045		
	10/17/2025	15:14	39-37	34.1	3.6	300.0	350.0	50.0	11	32	0					0.045		
	10/17/2025	15:40	37-35	32.3	3.6	350.0	400.0	50.0	11	32	0					0.045		
	10/17/2025	16:04	35-33	31.2	3.6	400.0	450.0	50.0	11	32	0					0.045		
	10/17/2025	16:30	33-31	30.9	3.6	450.0	500.0	50.0	11	32	0					0.045		

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Barrier #5
Appendix B: Table 5

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
	10/8/2025	10:20	31.5	75.0	2.6	0.0	25.0	25.0	5	16	0					0.023	Leak in drillers rod string caused a surface spill	
	10/8/2025	10:54	32.5	84.0	2.4	0.0	50.0	25.0	5	16	0					0.023		
	10/8/2025	11:09	33.5	135.0	1.4	50.0	75.0	25.0	5	16	0					0.023	Probe poressures high. Might be filled with sediment	Pressure Activated Probe
	10/8/2025	12:24	34.5	165.0	0.7	75.0	100.0	25.0	5	16	0					0.023	Was getting little to no flow. Decided to pull point. Going to send a bottom up screen since this IP is in an area we have not tried yet.	
	10/8/2025	12:42	51-49	53.1	4.0	100.0	150.0	50.0	11	32	0					0.045	Bottom up	
IP-5-25	10/8/2025	13:07	49-47	33.8	3.9	150.0	200.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Screen
	10/8/2025	13:27	47-45	28.2	3.5	200.0	250.0	50.0	11	32	0					0.045		
	10/8/2025	13:50	45-43	24.5	3.3	250.0	300.0	50.0	11	32	0					0.045		
	10/8/2025	14:12	43-41	22.9	2.5	300.0	350.0	50.0	11	32	0					0.045		
	10/8/2025	14:43	41-39	32.2	3.0	350.0	400.0	50.0	11	32	0					0.045		
	10/8/2025	15:09	39-37	20.2	3.0	400.0	450.0	50.0	11	32	0					0.045		
	10/8/2025	15:32	37-35	21.8	2.7	450.0	500.0	50.0	11	32	0					0.045		
	10/17/2025	9:00	51-49	42.9	2.8	0.0	50.0	50.0	11	32	0					0.045		
	10/17/2025	9:25	49-47	36.9	3.2	50.0	100.0	50.0	11	32	0					0.045		
	10/17/2025	9:43	47-45	33.3	3.3	100.0	150.0	50.0	11	32	0					0.045		
	10/17/2025	10:10	45-43	35.6	3.4	150.0	200.0	50.0	11	32	0					0.045		
IP-5-26	10/17/2025	10:48	43-41	32.4	3.4	200.0	250.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Screen
	10/17/2025	11:04	41-39	35.4	3.4	250.0	300.0	50.0	11	32	0					0.045		
	10/17/2025	11:18	39-37	31.9	3.5	300.0	350.0	50.0	11	32	0					0.045		
	10/17/2025	11:40	37-35	30.4	3.4	350.0	400.0	50.0	11	32	0					0.045		
	10/17/2025	11:57	35-33	24.6	3.0	400.0	450.0	50.0	11	32	0					0.045		
	10/17/2025	12:20	33-31	42.2	3.1	450.0	500.0	50.0	11	32	0					0.045		
	10/16/2025	9:02	51-49	45.6	3.0	0.0	50.0	50.0	11	32	0					0.045		
	10/16/2025	9:31	49-47	45.2	3.0	50.0	100.0	50.0	11	32	0					0.045		
	10/16/2025	10:03	47-45	21.1	3.0	100.0	150.0	50.0	11	32	0					0.045		
	10/16/2025	10:25	45-43	24.6	2.9	150.0	200.0	50.0	11	32	0					0.045	Surfacing into problem area. Likely from this IP and pressure from 5-30	
IP-5-27	10/16/2025	11:14	43-41	20.5	3.2	200.0	250.0	50.0	11	32	0	500	106	323	0	0.045	Isolated point. Flowing fine. IP-5-13 is the culprit at this interval 35ft away	2-Foot Screen
	10/16/2025	11:45	41-39	27.1	3.2	250.0	300.0	50.0	11	32	0					0.045		
	10/16/2025	12:04	39-37	26.1	3.1	300.0	350.0	50.0	11	32	0					0.045		
	10/16/2025	12:22	37-35	30.3	3.8	350.0	400.0	50.0	11	32	0					0.045		
	10/16/2025	12:59	35-33	24.0	3.5	400.0	450.0	50.0	11	32	0					0.045		
	10/16/2025	13:28	33-31	21.5	3.2	450.0	500.0	50.0	11	32	0					0.045		
	10/17/2025	13:33	51-49	45.2	3.6	0.0	50.0	50.0	11	32	0					0.045		
	10/17/2025	13:48	49-47	33.9	3.5	50.0	100.0	50.0	11	32	0					0.045		
	10/17/2025	14:11	47-45	35.3	3.7	100.0	150.0	50.0	11	32	0					0.045		
	10/17/2025	14:24	45-43	38.5	3.7	150.0	200.0	50.0	11	32	0					0.045		
IP-5-28	10/17/2025	14:52	43-41	42.7	3.6	200.0	250.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Screen
	10/17/2025	15:14	41-39	44.8	3.6	250.0	300.0	50.0	11	32	0					0.045		
	10/17/2025	15:40	39-37	34.1	3.6	300.0	350.0	50.0	11	32	0					0.045		
	10/17/2025	15:55	37-35	28.9	4.0	350.0	400.0	50.0	11	32	0					0.045		
	10/17/2025	16:18	35-33	27.4	3.9	400.0	450.0	50.0	11	32	0					0.045		
	10/17/2025	16:32	33-31	22.1	3.9	450.0	500.0	50.0	11	32	0					0.045		
	10/14/2025	9:10	51-49	27.5	2.8	0.0	50.0	50.0	11	32	0					0.045		
	10/14/2025	9:35	49-47	24.9	2.8	50.0	100.0	50.0	11	32	0					0.045		
	10/14/2025	9:52	47-45	35.2	3.0	100.0	150.0	50.0	11	32	0					0.045		
	10/14/2025	10:17	45-43	26.1	3.2	150.0	200.0	50.0	11	32	0					0.045		
	10/14/2025	10:31	43-41	32.7	3.3	200.0	250.0	50.0	11	32	0					0.045		
IP-5-29	10/14/2025	11:03	41-39	28.2	3.4	250.0	300.0	50.0	11	32	0	500	107	323	0	0.045		2-Foot Screen
	10/14/2025	11:18	39-37	27.7	3.1	300.0	350.0	50.0	11	32	0					0.045		
	10/14/2025	11:41	37-35	32.1	3.9	350.0	400.0	50.0	11	32	0					0.045		
	10/14/2025	12:15	35-33	32.1	4.2	400.0	450.0	50.0	11	32	0					0.045		
	10/14/2025	12:24	33-31	28.3	3.8	450.0	500.0	50.0	11	32	0					0.045	No issues surfacing with this IP in the problem area. Under the driveway might be fine with bottom-up	
	10/16/2025	9:02	51-49	94.5	2.7	0.0	50.0	50.0	11	32	0					0.045		
	10/16/2025	10:03	49-47	140.0	2.4	50.0	100.0	50.0	11	32	0					0.045	IP seems to be clogged, going to pull rod and see. Injection tool was clogged with sands. Filled IP with bentonite and will let it sit overnight at minimum before resuming injections	
	10/17/2025	9:01	47-45	29.3	3.0	100.0	150.0	50.0	11	32	0					0.045	Resuming injections on this IP with a newly driven screen	
IP-5-30	10/17/2025	9:25	45-43	41.4	3.3	150.0	200.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Screen
	10/17/2025	9:43	43-41	33.8	3.4	200.0	250.0	50.0	11	32	0					0.045		
	10/17/2025	10:09	41-39	34.8	3.5	250.0	300.0	50.0	11	32	0					0.045		
	10/17/2025	10:48	39-37	37.8	3.4	300.0	350.0	50.0	11	32	0					0.045		
	10/17/2025	11:05	37-35	45.5	3.3	350.0	400.0	50.0	11	32	0					0.045		
	10/17/2025	11:18	35-33	30.8	3.6	400.0	450.0	50.0	11	32	0					0.045		
	10/17/2025	11:39	33-31	27.5	3.4	450.0	500.0	50.0	11	32	0					0.045	No issues completing this IP	
	10/16/2025	11:15	51-49	36.8	2.9	0.0	50.0	50.0	11	32	0					0.045	Moved to this IP before finishing 5-30 because it was clogged	
	10/16/2025	11:59	49-47	33.4	3.2	50.0	100.0	50.0	11	32	0					0.045		
	10/16/2025	12:22	47-45	32.3	3.8	100.0	150.0	50.0	11	32	0					0.045		
	10/16/2025	12:53	45-43	20.1	3.5	150.0	200.0	50.0	11	32	0					0.045		
IP-5-31	10/16/2025	13:31	43-41	28.2	3.6	200.0	250.0	50.0	11	32	0	500	106	323	0	0.045		2-Foot Exposed Port
	10/16/2025	13:51	41-39	24.8	3.7	250.0	300.0	50.0	11	32	0					0.045		
	10/16/2025	14:14	39-37	27.6	3.7	300.0	350.0	50.0	11	32	0					0.045		
	10/16/2025	14:32	37-35	18.3	3.4	350.0	400.0	50.0	11	32	0					0.045		
	10/16/2025	14:56	35-33	17.4	3.4	400.0	450.0	50.0	11	32	0					0.045		
	10/16/2025	15:03	33-31	14.5	3.2	450.0	500.0	50.0	11	32	0					0.045		

Total Gallons:	Total Lbs. of S-Micro ZVI	Total Lbs. of PlumeStop	Total Lbs. of AquiFix	Liters of BDI Per Interval
17341.0	3300.0	10000.0	0.0	14.0

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Treatment Zone #1
Appendix B: Table 6

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
TZ-1-1	11/13/2025	9:45	18-17	24.1	2.0	0.0	45	45.0	11	0	27	495	125	0	300	0.091		2-Foot Screen
	11/13/2025	10:22	17-15	17.1	2.3	45.0	135	90.0	23	0	55					0.182		
	11/13/2025	11:05	15-13	14.2	2.6	135.0	225	90.0	23	0	55					0.182		
	11/13/2025	12:03	13-11	12.3	2.6	225.0	315	90.0	23	0	55					0.182		
	11/13/2025	13:11	11-9	2.6	2.7	315.0	405	90.0	23	0	55					0.182		
	11/13/2025	14:08	9-7	4.4	2.3	405.0	495	90.0	23	0	55					0.182		
TZ-1-2	11/13/2025	9:45	18-17	18.2	2.0	0.0	45.0	45.0	11	0	27	495	125	0	300	0.091		2-Foot Screen
	11/13/2025	10:22	17-15	12.5	2.3	45.0	135.0	90.0	23	0	55					0.182		
	11/13/2025	11:05	15-13	10.8	2.6	135.0	225.0	90.0	23	0	55					0.182		
	11/13/2025	12:03	13-11	9.2	2.5	225.0	315.0	90.0	23	0	55					0.182		
	11/13/2025	13:11	11-9	12.8	2.6	315.0	405.0	90.0	23	0	55					0.182		
	11/13/2025	14:08	9-7	2.9	2.2	405.0	495.0	90.0	23	0	55					0.182		
TZ-1-3	11/13/2025	9:45	18-17	25.6	2.0	0.0	45	45.0	11	0	27	495	125	0	300	0.091		2-Foot Screen
	11/13/2025	10:22	17-15	12.6	2.4	45.0	135	90.0	23	0	55					0.182		
	11/13/2025	11:06	15-13	10.4	2.5	135.0	225	90.0	23	0	55					0.182		
	11/13/2025	12:00	13-11	0.0	0.4	225.0	298	73.0	18	0	44					0.182	Was dealing with a light trickle most of this interval. Going to pull and reset IP	
	11/13/2025	12:32	13-11	6.8	2.3	298.0	315	17.0	4	0	10					-		
	11/13/2025	13:11	11-9	11.4	2.7	315.0	405	90.0	23	0	55					0.182		
	11/13/2025	14:08	9-7	8.4	1.7	405.0	495.0	90.0	23	0	55					0.182	Some surfacing from rod annulus again. Repacking bentonite and slowing gpm	
TZ-1-4	11/13/2025	9:45	18-17	63.3	2.0	0.0	45.0	45.0	11	0	27	495	125	0	300	0.091		2-Foot Screen
	11/13/2025	10:22	17-15	13.9	2.3	45.0	135.0	90.0	23	0	55					0.182		
	11/13/2025	11:06	15-13	10.9	2.6	135.0	225.0	90.0	23	0	55					0.182		
	11/13/2025	12:03	13-11	10.1	2.5	225.0	315.0	90.0	23	0	55					0.182		
	11/13/2025	13:12	11-9	15.8	2.6	315.0	405.0	90.0	23	0	55					0.182		
	11/13/2025	14:08	9-7	8.4	2.3	405.0	495.0	90.0	23	0	55					0.182		

Total Gallons:	Total Lbs. of S-Micro ZVI	Total Lbs. of PlumeStop	Total Lbs. of AquiFix	Total Liters of BDI
1980.0	500.0	0.0	1200.0	4.0

Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Treatment Zone #2
Appendix B: Table 7

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
TZ-2-1	11/12/2025	10:31	18-16	58.4	2.6	0.0	90.0	90.0	21	0	50	540	125	0	300	0.208		2-Foot Screen
	11/12/2025	11:17	16-14	18.7	2.7	90.0	180.0	90.0	21	0	50					0.208		
	11/12/2025	12:14	14-12	13.8	3.0	180.0	270.0	90.0	21	0	50					0.208		
	11/12/2025	12:55	12-10	2.3	0.6	270.0	300.0	30.0	7	0	17					-	Constant surfacing from rod annulus. Tried to repack multiple times with no luck. Since this is a Treatment Zone, we are going to pull the IP and redrill it a couple feet up-gradient.	
	11/12/2025	13:23	12-10	15.1	2.6	300.0	360.0	60.0	14	0	33					0.208	Flowing fine.	
	11/12/2025	14:12	10-8	13.1	2.7	360.0	450.0	90.0	21	0	50					0.208		
	11/12/2025	15:04	8-6	7.8	2.5	450.0	540.0	90.0	21	0	50					0.208		
TZ-2-2	11/12/2025	10:31	18-16	12.4	2.6	0.0	90	90.0	21	0	50	540	125	0	300	0.208		2-Foot Screen
	11/12/2025	11:17	16-14	17.2	2.7	90.0	180	90.0	21	0	50					0.208		
	11/12/2025	12:14	14-12	13.2	3.0	180.0	270	90.0	21	0	50					0.208		
	11/12/2025	13:23	12-10	6.9	2.6	270.0	360	90.0	21	0	50					0.208		
	11/12/2025	14:12	10-8	7.2	2.8	360.0	450	90.0	21	0	50					0.208		
	11/12/2025	15:04	8-6	5.4	2.5	450.0	540	90.0	21	0	50					0.208		
TZ-2-3	11/12/2025	10:31	18-16	14.9	2.5	0.0	90.0	90.0	21	0	50	540	125	0	300	0.208		2-Foot Screen
	11/12/2025	11:16	16-14	12.3	2.6	90.0	180.0	90.0	21	0	50					0.208		
	11/12/2025	12:13	14-12	9.7	3.0	180.0	270.0	90.0	21	0	50					0.208		
	11/12/2025	13:22	12-10	6.9	2.5	270.0	360.0	90.0	21	0	50					0.208		
	11/12/2025	14:12	10-8	8.6	2.8	360.0	450.0	90.0	21	0	50					0.208		
	11/12/2025	15:04	8-6	7.7	2.5	450.0	540.0	90.0	21	0	50					0.208		
TZ-2-4	11/12/2025	10:31	18-16	14.9	2.5	0.0	90	90.0	21	0	50	540	125	0	300	0.208		2-Foot Screen
	11/12/2025	11:16	16-14	13.4	2.7	90.0	180	90.0	21	0	50					0.208		
	11/12/2025	12:13	14-12	24.3	3.0	180.0	270	90.0	21	0	50					0.208		
	11/12/2025	13:22	12-10	10.3	2.6	270.0	360	90.0	21	0	50					0.208		
	11/12/2025	14:11	10-8	10.4	2.8	360.0	450	90.0	21	0	50					0.208		
	11/12/2025	15:04	8-6	7.5	2.5	450.0	540	90.0	21	0	50					0.208		

Total Gallons:	Total Lbs. of S-Micro ZVI	Total Lbs. of PlumeStop	Total Lbs. of AquiFix	Total Liters of BDI
2160.0	500.0	0.0	1200.0	5.0

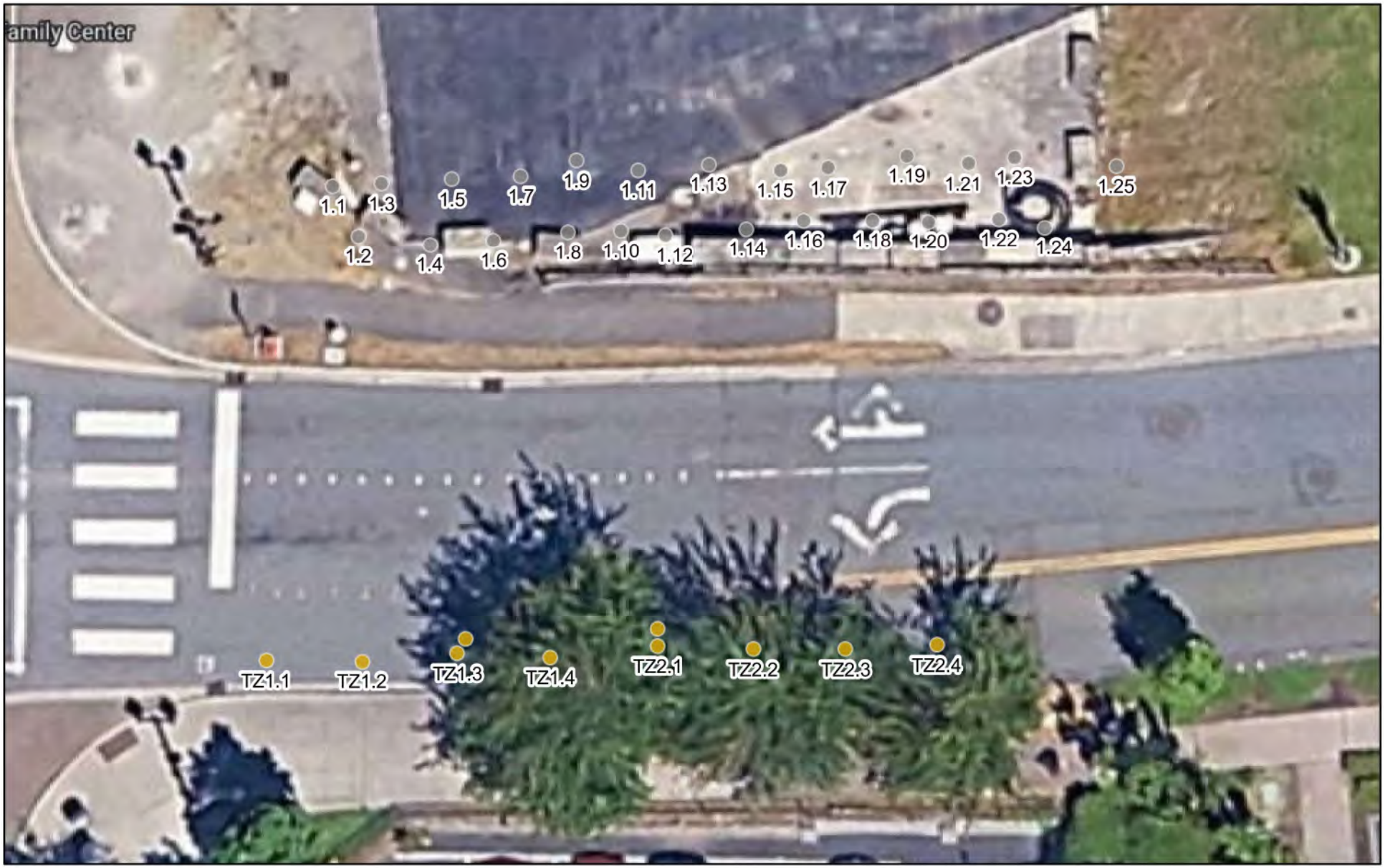
Floyd Snider - Ultra Care Custom Cleaners
Injection Summary Log
Treatment Zone #3
Appendix B: Table 8

Injection Point	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of Solution Injected			Pounds of MicroZVI per Interval	Pounds of Plumestop Per Interval	Pounds of AquiFix Per Interval	Total Gallons Per Location	Pounds of S-Micro ZVI Per Location	Pounds of PlumeStop Injected Per Location	Pounds of AquiFix Per Location	Liters of BDI Per Interval	Comments	Injection Tooling
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval										
TZ-3-1	10/7/2025	8:12	40-38	30.3	4.0	0.0	69	69.0	25	0	66	700.0	250	0	667	0.150		2-Foot Screen
	10/7/2025	8:39	38-36	37.8	5.4	69.0	140	71.0	25	0	68					0.150		
	10/7/2025	9:03	36-34	27.6	5.0	140.0	210	70.0	25	0	67					0.150		
	10/7/2025	9:24	34-32	36.0	5.6	210.0	280	70.0	25	0	67					0.150		
	10/7/2025	9:40	32-30	31.3	5.7	280.0	350	70.0	25	0	67					0.150		
	10/7/2025	10:05	30-28	34.5	5.7	350.0	420	70.0	25	0	67					0.150		
	10/7/2025	10:25	28-26	37.8	6.3	420.0	490.0	70.0	25	0	67					0.150		
	10/7/2025	10:50	26-24	32.7	6.3	490.0	560.0	70.0	25	0	67					0.150		
	10/7/2025	11:21	24-22	29.8	5.7	560.0	630.0	70.0	25	0	67					0.150		
	10/7/2025	11:43	22-20	29.8	6.0	630.0	700.0	70.0	25	0	67					0.150		
TZ-3-2	10/6/2025	11:46	40-38	30.6	4.4	0.0	70.0	70.0	25	0	67	700.0	250	0	667	0.150		2-Foot Screen
	10/6/2025	12:02	38-36	26.1	5.1	70.0	139.0	69.0	25	0	66					0.150		
	10/6/2025	12:22	36-34	36.4	5.6	139.0	210.0	71.0	25	0	68					0.150		
	10/6/2025	12:40	34-32	35.7	5.5	210.0	280.0	70.0	25	0	67					0.150		
	10/6/2025	12:57	32-30	28.8	5.7	280.0	350.0	70.0	25	0	67					0.150		
	10/6/2025	13:14	30-28	30.7	5.5	350.0	420.0	70.0	25	0	67					0.150		
	10/6/2025	13:44	28-26	29.5	5.5	420.0	490.0	70.0	25	0	67					0.150		
	10/6/2025	14:02	26-24	31.7	5.7	490.0	560.0	70.0	25	0	67					0.150		
	10/6/2025	14:23	24-22	28.9	5.5	560.0	629.0	69.0	25	0	66					0.150	High back pressure	
	10/6/2025	14:41	22-20	28.1	5.5	629.0	700.0	71.0	25	0	68					0.150		
TZ-3-3	10/6/2025	11:46	40-38	29.4	4.4	0.0	70	70.0	25	0	67	700.0	250	0	667	0.150		2-Foot Screen
	10/6/2025	12:02	38-36	15.6	5.2	70.0	140	70.0	25	0	67					0.150		
	10/6/2025	12:22	36-34	17.4	5.6	140.0	210	70.0	25	0	67					0.150		
	10/6/2025	12:40	34-32	26.9	5.5	210.0	279	69.0	25	0	66					0.150		
	10/6/2025	12:58	32-30	30.9	5.8	279.0	350	71.0	25	0	68					0.150		
	10/6/2025	13:14	30-28	24.7	5.5	350.0	420	70.0	25	0	67					0.150		
	10/6/2025	13:43	28-26	18.2	5.5	420.0	490.0	70.0	25	0	67					0.150		
	10/6/2025	14:02	26-24	27.0	5.6	490.0	560.0	70.0	25	0	67					0.150		
	10/6/2025	14:23	24-22	16.7	5.5	560.0	631.0	71.0	25	0	68					0.150	High back pressure	
	10/6/2025	14:41	22-20	23.6	5.5	631.0	700.0	69.0	25	0	66					0.150		
TZ-3-4	10/6/2025	11:46	40-38	29.2	4.5	0.0	70.0	70.0	25	0	67	700.0	250	0	667	0.150		2-Foot Screen
	10/6/2025	12:02	38-36	25.1	5.2	70.0	140.0	70.0	25	0	67					0.150		
	10/6/2025	12:22	36-34	35.4	5.7	140.0	210.0	70.0	25	0	67					0.150		
	10/6/2025	12:40	34-32	34.0	5.5	210.0	280.0	70.0	25	0	67					0.150		
	10/6/2025	12:58	32-30	36.4	5.8	280.0	350.0	70.0	25	0	67					0.150		
	10/6/2025	13:14	30-28	28.7	5.5	350.0	421.0	71.0	25	0	68					0.150		
	10/6/2025	13:43	28-26	28.3	5.5	421.0	490.0	69.0	25	0	66					0.150		
	10/6/2025	14:02	26-24	31.0	5.6	490.0	560.0	70.0	25	0	67					0.150		
	10/6/2025	14:23	24-22	20.1	5.5	560.0	630.0	70.0	25	0	67					0.150	High back pressure	
	10/6/2025	14:41	22-20	27.8	5.5	630.0	700.0	70.0	25	0	67					0.150		
TZ-3-5	10/7/2025	8:12	40-38	24.9	4.1	0.0	72	72.0	26	0	69	700.0	250	0	667	0.150		2-Foot Screen
	10/7/2025	8:39	38-36	31.5	5.5	72.0	140	68.0	24	0	65					0.150		
	10/7/2025	9:03	36-34	25.8	5.1	140.0	210	70.0	25	0	67					0.150		
	10/7/2025	9:24	34-32	29.7	5.6	210.0	280	70.0	25	0	67					0.150		
	10/7/2025	9:41	32-30	29.4	5.7	280.0	350	70.0	25	0	67					0.150		
	10/7/2025	10:05	30-28	22.7	5.7	350.0	420	70.0	25	0	67					0.150		
	10/7/2025	10:25	28-26	30.1	6.4	420.0	490.0	70.0	25	0	67					0.150		
	10/7/2025	10:50	26-24	31.8	6.4	490.0	560.0	70.0	25	0	67					0.150		
	10/7/2025	11:21	24-22	26.6	5.7	560.0	630.0	70.0	25	0	67					0.150		
	10/7/2025	11:42	22-20	25.3	6.0	630.0	700.0	70.0	25	0	67					0.150		
TZ-3-6	10/7/2025	8:12	40-38	27.1	4.1	0.0	71.0	71.0	25	0	68	700.0	250	0	667	0.150		2-Foot Screen
	10/7/2025	8:39	38-36	34.8	5.5	71.0	140.0	69.0	25	0	66					0.150		
	10/7/2025	9:03	36-34	28.6	5.1	140.0	209.0	69.0	25	0	66					0.150		
	10/7/2025	9:24	34-32	34.9	5.6	209.0	280.0	71.0	25	0	68					0.150		
	10/7/2025	9:41	32-30	35.8	5.6	280.0	350.0	70.0	25	0	67					0.150		
	10/7/2025	10:05	30-28	37.1	5.6	350.0	421.0	71.0	25	0	68					0.150		
	10/7/2025	10:25	28-26	40.2	6.5	421.0	490.0	69.0	25	0	66					0.150		
	10/7/2025	10:50	26-24	32.7	6.6	490.0	560.0	70.0	25	0	67					0.150		
	10/7/2025	11:21	24-22	27.1	5.6	560.0	630.0	70.0	25	0	67					0.150		
	10/7/2025	11:42	22-20	33.5	5.9	630.0	700.0	70.0	25	0	67					0.150		

Total Gallons:	Total Lbs. of S-Micro ZVI	Total Lbs. of PlumeStop	Total Lbs. of AquiFix	Total Liters of BDI
4200.0	1500.0	0.0	4000.0	9.0

Appendix C: Injection Maps and Data

Holt Services Inc - Ultra Custom Care Cleaners - Injection Locations Map



- PlumeStop & S-MicroZVI Injection Point
- S-MicroZVI AquiFix & Injection Point

Appendix C: Figure 1
Injection Point Locations for
Barrier 1, TZ-1 and TZ-2

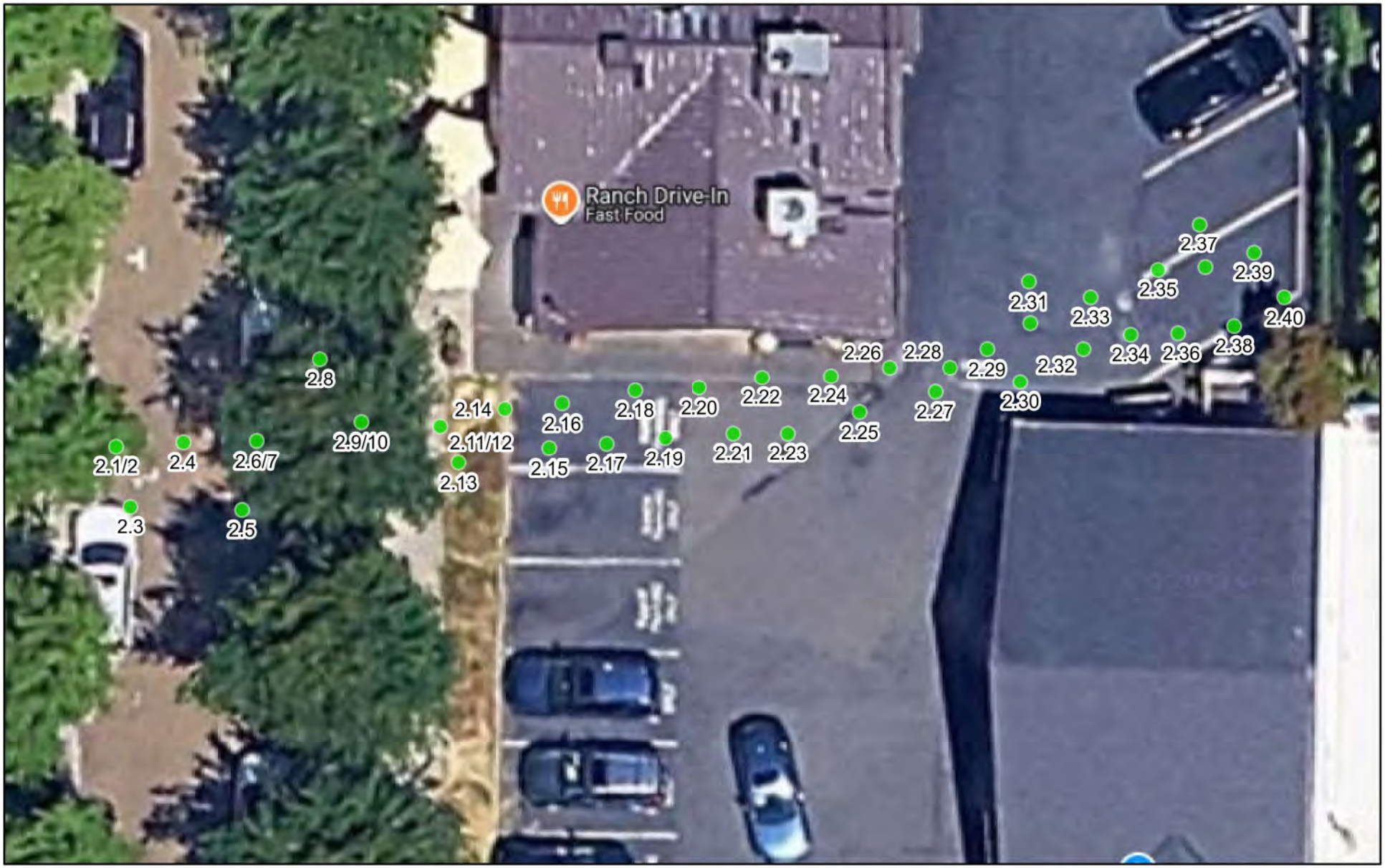
1:250

0 5 10 20 ft

0 2.25 4.5 9 m

REGENESIS
REMEDIATION SERVICES

Holt Services Inc - Ultra Custom Care Cleaners - Injection Locations Map



AquiFix Injection Point

Appendix C: Figure 2
Injection Point Locations for
Barrier 2

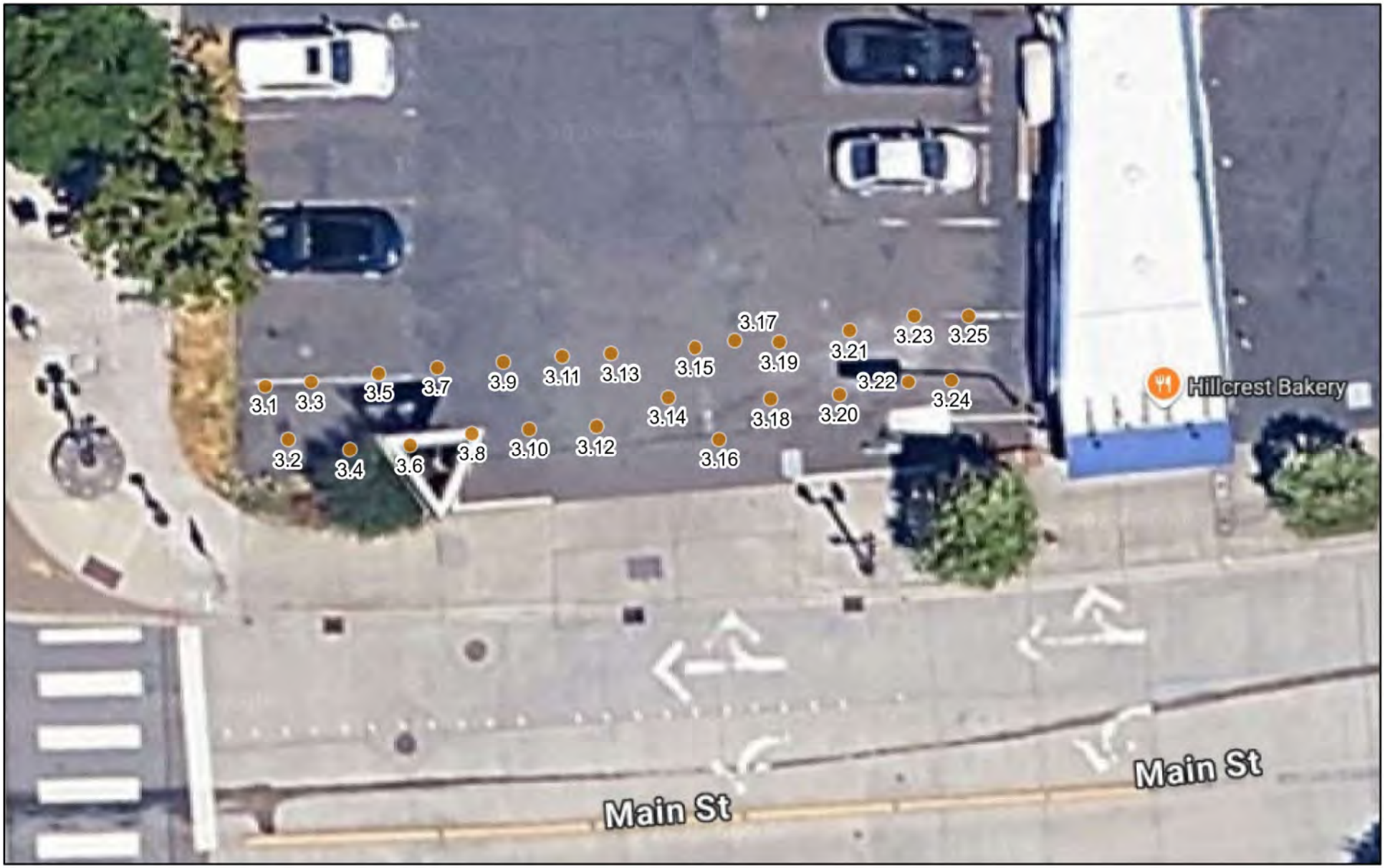
1:250

0 5 10 20 ft

0 2.25 4.5 9 m

REGENESIS
REMEDIATION SERVICES

Holt Services Inc - Ultra Custom Care Cleaners - Injection Locations Map



PlumeStop, S-MicroZVI & AquiFix Injection Point

Appendix C: Figure 3
Injection Point Locations for Barrier 3

1:250
0 5 10 20 ft
0 2.25 4.5 9 m

REGENESIS
REMEDIATION SERVICES

Holt Services Inc - Ultra Custom Care Cleaners - Injection Locations Map



PlumeStop, S-MicroZVI & AquiFix Injection Point

Appendix C: Figure 4
Injection Point Locations for Barrier 4

1:250
0 5 10 20 ft
0 2.25 4.5 9 m

REGENESIS
REMEDIATION SERVICES

Holt Services Inc - Ultra Custom Care Cleaners - Injection Locations Map



PlumeStop & S-MicroZVI Injection Point

S-MicroZVI & AquiFix Injection Point

Appendix C: Figure 5
Injection Point Locations for
Barrier 5 and TZ-3

1:300

0 5 10 20 ft

0 2.75 5.5 11 m

REGENESIS
REMEDIATION SERVICES

Holt Services

Injection Point Location Data

WGS84 Web Mercator Auxiliary Sphere

Appendix C; Table 1

Injection Area	Project ID	Location Point ID	Latitude (°)	Longitude (°)
Barrier 1	CL69090	1.1	47.76094567	-122.2072988
Barrier 1	CL69090	1.2	47.76093361	-122.2072771
Barrier 1	CL69090	1.3	47.76094626	-122.2072787
Barrier 1	CL69090	1.4	47.76092932	-122.2072589
Barrier 1	CL69090	1.5	47.76095143	-122.2072479
Barrier 1	CL69090	1.6	47.76093091	-122.2072277
Barrier 1	CL69090	1.7	47.76094843	-122.2072262
Barrier 1	CL69090	1.8	47.76093272	-122.2072015
Barrier 1	CL69090	1.9	47.76095269	-122.2071981
Barrier 1	CL69090	1.10	47.76093314	-122.2071795
Barrier 1	CL69090	1.11	47.76094998	-122.2071723
Barrier 1	CL69090	1.12	47.7609319	-122.2071613
Barrier 1	CL69090	1.13	47.76095173	-122.207143
Barrier 1	CL69090	1.14	47.76093767	-122.2071263
Barrier 1	CL69090	1.15	47.76094872	-122.2071122
Barrier 1	CL69090	1.16	47.76093593	-122.2071033
Barrier 1	CL69090	1.17	47.76095064	-122.2070932
Barrier 1	CL69090	1.18	47.76093609	-122.207075
Barrier 1	CL69090	1.19	47.76095415	-122.2070609
Barrier 1	CL69090	1.20	47.76093577	-122.2070516
Barrier 1	CL69090	1.21	47.7609518	-122.207035
Barrier 1	CL69090	1.22	47.76093625	-122.2070227
Barrier 1	CL69090	1.23	47.76095364	-122.2070162
Barrier 1	CL69090	1.24	47.76093409	-122.2070038
Barrier 1	CL69090	1.25	47.76095118	-122.2069742
Barrier 2	CL69090	2.1/2	47.76042121	-122.2074955
Barrier 2	CL69090	2.3	47.76040447	-122.2074897
Barrier 2	CL69090	2.4	47.76042229	-122.207468
Barrier 2	CL69090	2.5	47.76040353	-122.2074436
Barrier 2	CL69090	2.6/7	47.76042257	-122.2074375
Barrier 2	CL69090	2.8	47.76044542	-122.2074111
Barrier 2	CL69090	2.9/10	47.7604279	-122.2073941
Barrier 2	CL69090	2.11/12	47.76042671	-122.2073613
Barrier 2	CL69090	2.13	47.76041662	-122.2073536
Barrier 2	CL69090	2.14	47.76043141	-122.2073347
Barrier 2	CL69090	2.15	47.76042058	-122.207316
Barrier 2	CL69090	2.16	47.76043297	-122.2073107
Barrier 2	CL69090	2.17	47.7604282	-122.207289
Barrier 2	CL69090	2.18	47.76043675	-122.2072805
Barrier 2	CL69090	2.19	47.76042332	-122.2072683
Barrier 2	CL69090	2.20	47.76043742	-122.2072539
Barrier 2	CL69090	2.21	47.7604228	-122.2072401
Barrier 2	CL69090	2.22	47.76044044	-122.207228
Barrier 2	CL69090	2.23	47.76042487	-122.2072169
Barrier 2	CL69090	2.24	47.76044083	-122.207199
Barrier 2	CL69090	2.25	47.7604306	-122.2071873
Barrier 2	CL69090	2.26	47.7604432	122.2071709
Barrier 2	CL69090	2.27	47.76043634	-122.2071561
Barrier 2	CL69090	2.28	47.7604483	122.2071477
Barrier 2	CL69090	2.29	47.7604453	-122.2071267
Barrier 2	CL69090	2.30	47.7604377	-122.2071131
Barrier 2	CL69090	2.31	47.76046682	-122.2071171
Barrier 2	CL69090	2.32	47.7604512	-122.2070909
Barrier 2	CL69090	2.33	47.7604642	-122.2070904
Barrier 2	CL69090	2.34	47.7604523	-122.2070751
Barrier 2	CL69090	2.35	47.7604679	-122.2070678
Barrier 2	CL69090	2.36	47.7604575	-122.2070503
Barrier 2	CL69090	2.37	47.76048695	-122.2070482
Barrier 2	CL69090	2.38	47.7604608	-122.2070284

Holt Services

Injection Point Location Data

WGS84 Web Mercator Auxiliary Sphere

Appendix C; Table 1

Injection Area	Project ID	Location Point ID	Latitude (°	Longitude (°)
Barrier 2	CL69090	2.39	47.7604854	-122.2070228
Barrier 2	CL69090	2.40	47.76046994	-122.2070123
Barrier 3	CL69090	3.1	47.76009703	-122.20733
Barrier 3	CL69090	3.2	47.76008191	-122.20732
Barrier 3	CL69090	3.3	47.76009791	-122.20731
Barrier 3	CL69090	3.4	47.76007918	-122.20729
Barrier 3	CL69090	3.5	47.76010059	-122.20728
Barrier 3	CL69090	3.6	47.7600803	-122.20727
Barrier 3	CL69090	3.7	47.76010217	-122.20726
Barrier 3	CL69090	3.8	47.76008376	-122.20724
Barrier 3	CL69090	3.9	47.76010356	-122.20723
Barrier 3	CL69090	3.10	47.76008492	-122.20722
Barrier 3	CL69090	3.11	47.76010508	-122.20721
Barrier 3	CL69090	3.12	47.76008555	-122.20719
Barrier 3	CL69090	3.13	47.76010585	-122.20719
Barrier 3	CL69090	3.14	47.76009384	-122.20716
Barrier 3	CL69090	3.15	47.76010766	-122.20715
Barrier 3	CL69090	3.16	47.76008217	-122.20714
Barrier 3	CL69090	3.17	47.76010957	-122.20713
Barrier 3	CL69090	3.18	47.76009325	-122.20712
Barrier 3	CL69090	3.19	47.7601091	-122.20712
Barrier 3	CL69090	3.20	47.76009451	-122.20709
Barrier 3	CL69090	3.21	47.76011224	-122.20709
Barrier 3	CL69090	3.22	47.76009808	-122.20706
Barrier 3	CL69090	3.23	47.76011641	-122.20706
Barrier 3	CL69090	3.24	47.76009854	-122.20704
Barrier 3	CL69090	3.25	47.76011659	-122.20704
Barrier 4	CL69090	4.1	47.75981316	-122.2073
Barrier 4	CL69090	4.2	47.75983415	-122.2073
Barrier 4	CL69090	4.3	47.75982424	-122.20728
Barrier 4	CL69090	4.4	47.75984356	-122.20727
Barrier 4	CL69090	4.5	47.75983279	-122.20726
Barrier 4	CL69090	4.6	47.75985238	-122.20725
Barrier 4	CL69090	4.7	47.75984256	-122.20723
Barrier 4	CL69090	4.8	47.7598611	-122.20723
Barrier 4	CL69090	4.9	47.75984611	-122.20721
Barrier 4	CL69090	4.10	47.75986667	-122.2072
Barrier 4	CL69090	4.11	47.75984893	-122.20718
Barrier 4	CL69090	4.12	47.7598667	-122.20717
Barrier 4	CL69090	4.13	47.75986409	-122.20715
Barrier 4	CL69090	4.14	47.75988555	-122.20715
Barrier 4	CL69090	4.15	47.75987275	-122.20713
Barrier 4	CL69090	4.16	47.75989738	-122.20713
Barrier 4	CL69090	4.17	47.75988128	-122.20711
Barrier 4	CL69090	4.18	47.7599021	-122.20711
Barrier 4	CL69090	4.19	47.75989036	-122.20709
Barrier 4	CL69090	4.20	47.75991314	-122.20709
Barrier 4	CL69090	4.21	47.75989689	-122.20707
Barrier 4	CL69090	4.21	47.75989056	-122.20707
Barrier 4	CL69090	4.22	47.75992185	-122.20706
Barrier 4	CL69090	4.23	47.75990396	-122.20704
Barrier 4	CL69090	4.25	47.75991441	-122.20702
Barrier 4	CL69090	4.26	47.75993224	-122.20701
Barrier 4	CL69090	4.27	47.75991712	-122.20699
Barrier 4	CL69090	4.28	47.75993634	-122.20699
Barrier 4	CL69090	4.29	47.75992159	-122.20697
Barrier 4	CL69090	4.30	47.75993841	-122.20696
Barrier 4	CL69090	4.31	47.75992602	-122.20694
Barrier 5	CL69090	5.1	47.75952139	-122.2069442

Holt Services

Injection Point Location Data

WGS84 Web Mercator Auxiliary Sphere

Appendix C; Table 1

REGENESIS REMEDIATION SERVICES
Technology-Based Solutions for the Environment

Injection Area	Project ID	Location Point ID	Latitude (°)	Longitude (°)
Barrier 5	CL69090	5.2	47.75954219	-122.2069479
Barrier 5	CL69090	5.3	47.75952694	-122.2069208
Barrier 5	CL69090	5.4	47.7595487	-122.2069248
Barrier 5	CL69090	5.5	47.75953254	-122.2068959
Barrier 5	CL69090	5.6	47.75955709	-122.2069003
Barrier 5	CL69090	5.7	47.75953971	-122.2068741
Barrier 5	CL69090	5.8	47.75956376	-122.206874
Barrier 5	CL69090	5.9	47.75954986	-122.2068464
Barrier 5	CL69090	5.10	47.75957261	-122.2068486
Barrier 5	CL69090	5.11	47.7595566	-122.2068226
Barrier 5	CL69090	5.12	47.75957641	-122.2068209
Barrier 5	CL69090	5.13	47.75956469	-122.2067965
Barrier 5	CL69090	5.14	47.75958472	-122.206797
Barrier 5	CL69090	5.15	47.75956984	-122.2067743
Barrier 5	CL69090	5.16	47.75959255	-122.2067754
Barrier 5	CL69090	5.17	47.75957846	-122.2067542
Barrier 5	CL69090	5.18	47.75959749	-122.2067544
Barrier 5	CL69090	5.19	47.7595853	-122.2067288
Barrier 5	CL69090	5.20	47.7596029	-122.2067299
Barrier 5	CL69090	5.21	47.75959107	-122.2067086
Barrier 5	CL69090	5.22	47.75961142	-122.2067026
Barrier 5	CL69090	5.23	47.75959878	-122.2066804
Barrier 5	CL69090	5.23	47.75959979	-122.2066792
Barrier 5	CL69090	5.24	47.75961892	-122.2066787
Barrier 5	CL69090	5.25	47.75960671	-122.206656
Barrier 5	CL69090	5.26	47.75962718	-122.2066551
Barrier 5	CL69090	5.27	47.75961209	-122.2066367
Barrier 5	CL69090	5.28	47.75963302	-122.2066355
Barrier 5	CL69090	5.29	47.75962263	-122.2066096
Barrier 5	CL69090	5.30	47.75964976	-122.2066089
Barrier 5	CL69090	5.31	47.75962154	-122.206593
TZ1.1	CL69090	TZ1.1	47.76081	-122.20733
TZ1.2	CL69090	TZ1.2	47.76081	-122.20729
TZ1.3	CL69090	TZ1.3	47.76082	-122.20725
TZ1.4	CL69090	TZ1.4	47.76081	-122.20721
TZ2.1	CL69090	TZ2.1	47.76082	-122.20716
TZ2.2	CL69090	TZ2.2	47.76082	-122.20712
TZ2.3	CL69090	TZ2.3	47.76082	-122.20709
TZ2.4	CL69090	TZ2.4	47.76082	-122.20705
TZ3.1	CL69090	TZ3.1	47.75968166	-122.20707
TZ3.2	CL69090	TZ3.2	47.75969154	-122.20703
TZ3.3	CL69090	TZ3.3	47.75970414	-122.20699
TZ3.4	CL69090	TZ3.4	47.75971452	-122.20695
TZ3.5	CL69090	TZ3.5	47.75972849	-122.20691
TZ3.6	CL69090	TZ3.6	47.75974197	-122.20688

Disclaimer:

The data provided is at mapping quality for reference only. The data was collected with a sub-meter GNSS device. This is not an offical survey. Data should be used at your own risk due to the accuracy limitaions.

Appendix D: Photo Logs

Photo Log



▲ **PHOTO #1)** A general view of the project site and Barrier #5 placement

▼ **PHOTO #2)** A general view of day-to-day on-site operations occurring on Barrier #5



Photo Log



▲ **PHOTO #3)** A view of all REGENESIS remedial fluid on-site for in-situ installation

▼ **PHOTO #4)** Another view of all REGENESIS remedial fluid on-site for in-situ installation



Photo Log



▲ **PHOTO #5)** Holt Services personnel advancing injection screens to treatment zone

▼ **PHOTO #6)** RRS personnel mixing specified amount of remedial fluid into injection trailer



Photo Log



PHOTO #7) Hose ramps covering firehose lines to allow pedestrian traffic to continue

PHOTO #8) The fire hydrant used for remedial fluid mix water in the RRS injection trailer



Photo Log

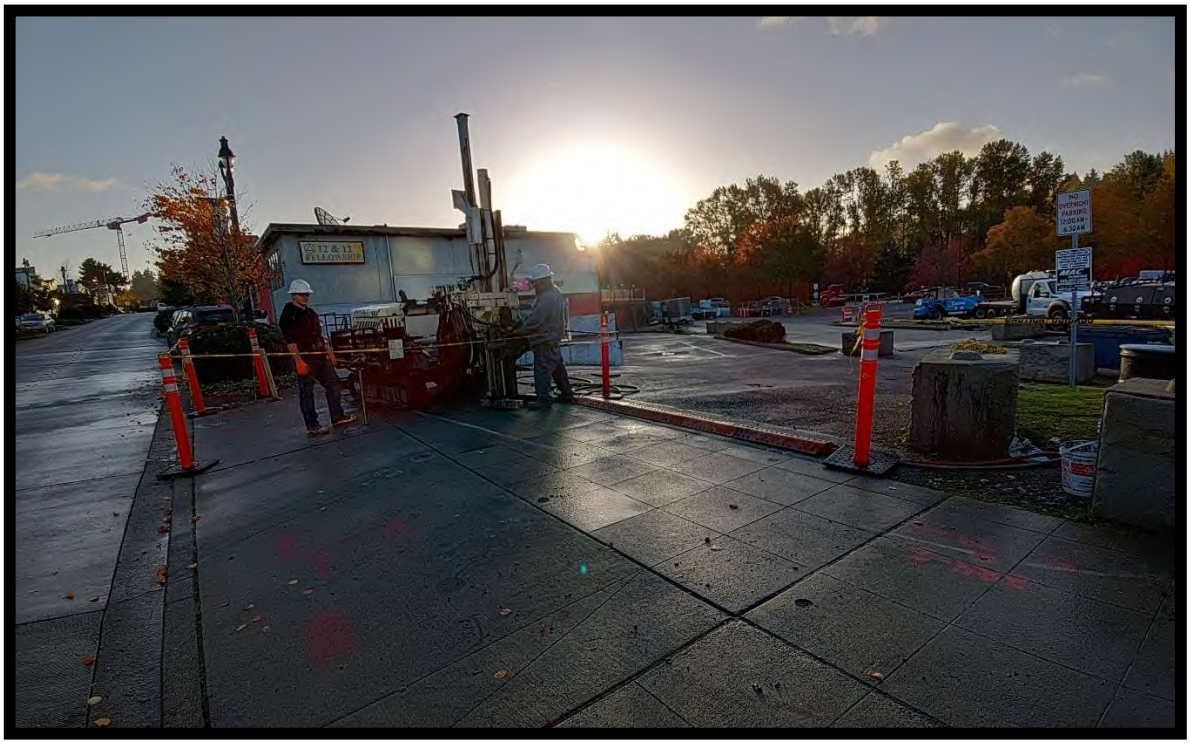


▲ **PHOTO #9)** Holt Services personnel working in the sidewalk closure for Barrier #4 install

▼ **PHOTO #10)** A view of the GeoProbe set up for injection rod advancement on Barrier #4



Photo Log



▲ **PHOTO #11)** Holt Services personnel advancing injection rods to the next treatment zone

▼ **PHOTO #12)** Active injection lines with hose ramps allowing access to business patrons



Photo Log



▲ **PHOTO #13)** Site setup for daily operations occurring on Barrier #3

▼ **PHOTO #14)** A view of the site closure during active injections on Barrier #3



Photo Log



▲ **PHOTO #15)** Another view of site closure during active injections on Barrier #3

▼ **PHOTO #16)** Holt Services' GeoProbe staged for injection rod advancement on Barrier #3



Photo Log



▲ **PHOTO #17)** Holt Services personnel attaching injection caps after rod advancement

▼ **PHOTO #18)** RRS personnel mixing specified amount of remedial fluid for Barrier #3



Photo Log

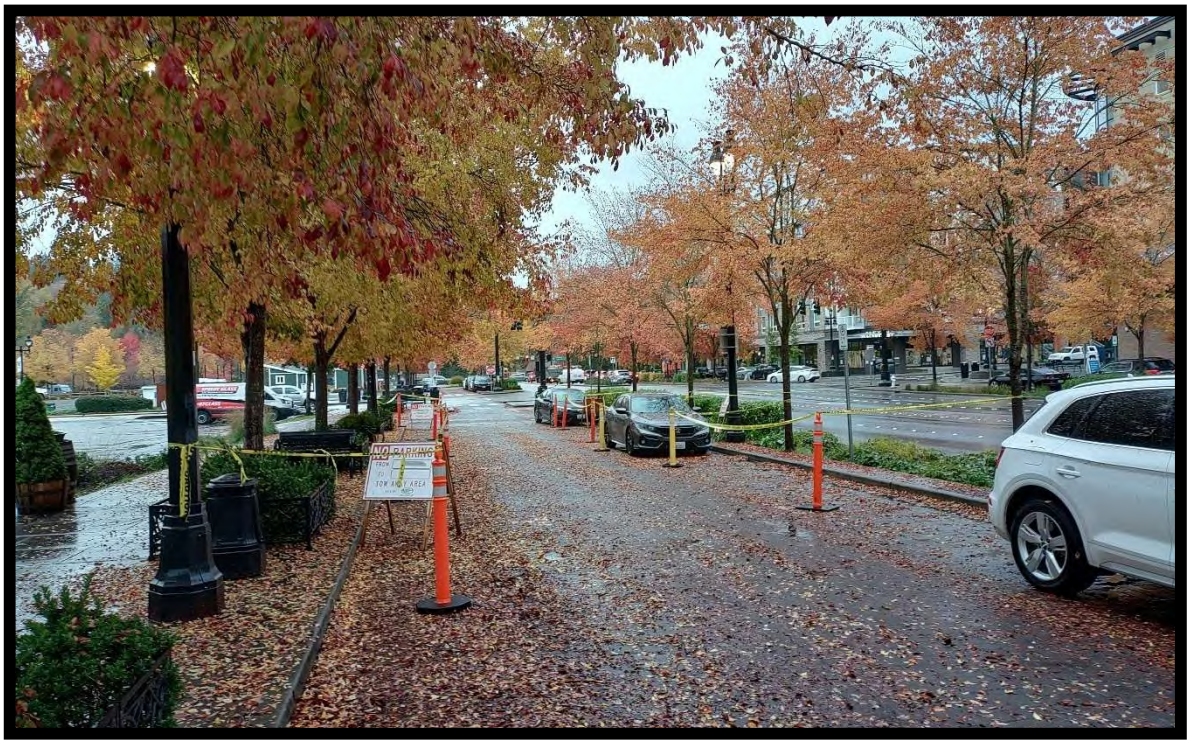


▲ **PHOTO #19)** A view of site closure for injections on Barrier #2

▼ **PHOTO #20)** A view of the REGENESIS remedial fluid staged and ready for mixing



Photo Log



▲ **PHOTO #21)** A view of parking lane closures to allow work on Barrier #2 the next day

▼ **PHOTO #22)** A view of the staged REGENESIS injection platform in Barrier #1



Photo Log



▲ **PHOTO #23)** Holt Services' GeoProbe staged for injection rod advancement on Barrier #1

▼ **PHOTO #24)** Holt Services' GeoProbes staged for injection rod advancement on Barrier #1



Photo Log



▲ **PHOTO #25)** Active injections occurring on Barrier #1 with absorbent spill mats below

▼ **PHOTO #26)** Active injections occurring on Barrier #5 with two GeoProbes

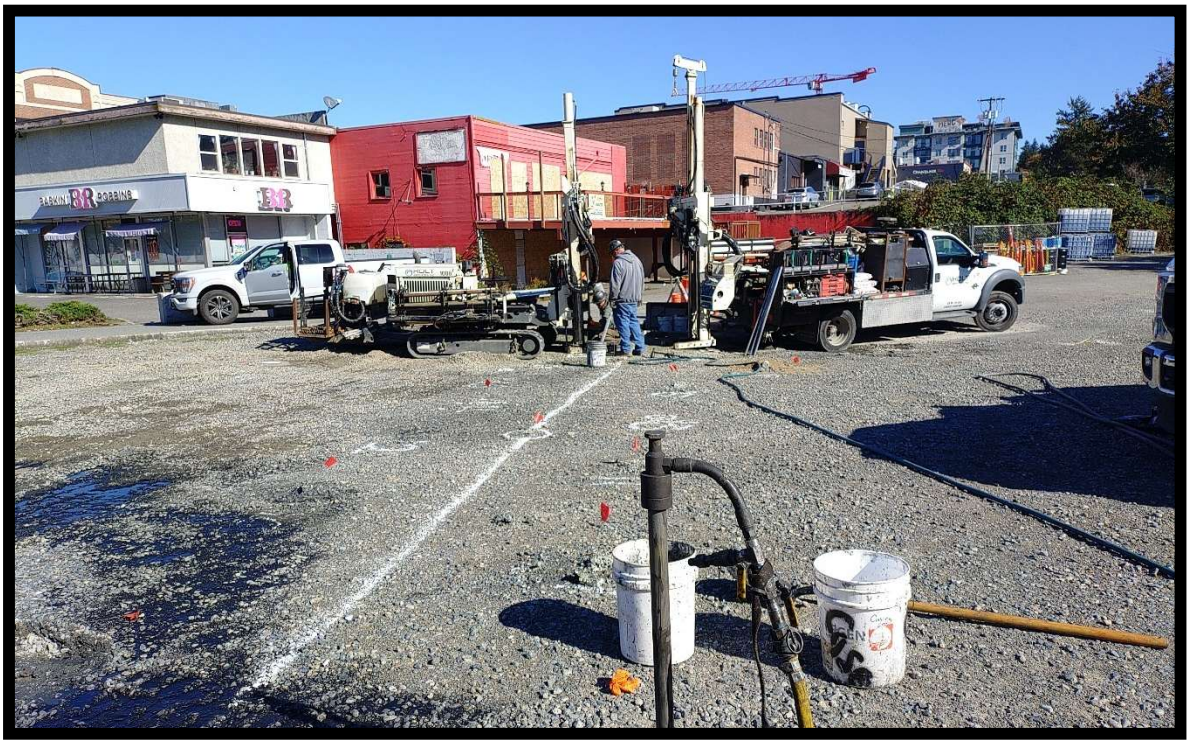


Photo Log



PHOTO #27) Nightly REGENESIS injection trailer staging for Barrier #3 weekend work

PHOTO #28) Another view of overnight REGENESIS injection trailer staging in Barrier #3



Photo Log



▲ **PHOTO #29)** Another view of overnight REGENESIS injection trailer staging in Barrier #3

▼ **PHOTO #30)** Holt Services' GeoProbe staged for injection rod advancement on Barrier #2



Photo Log



▲ **PHOTO #31)** Site closure using hi-vis delineators and hose ramps for active fire hoses

▼ **PHOTO #32)** Fire hydrant hookup for Barriers #2 and #3 installation with hose ramps

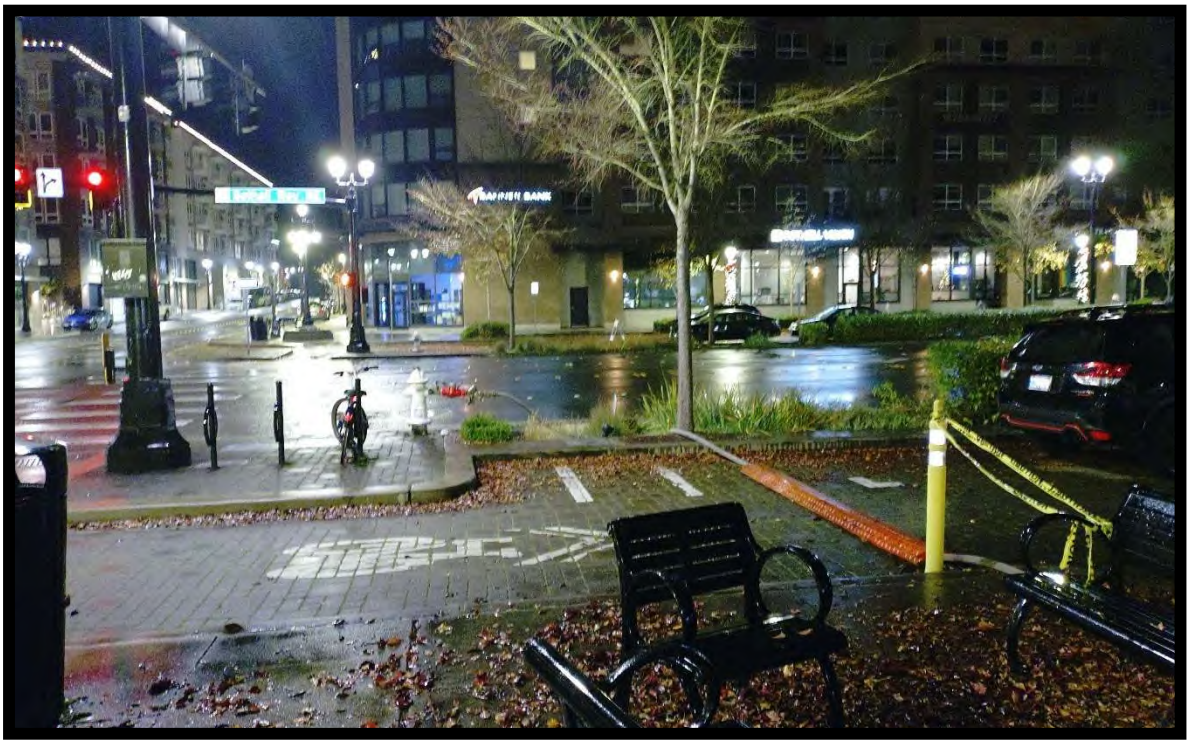


Photo Log



▲ **PHOTO #33)** Another view of the fire hydrant hookup for Barriers #2 and #3

▼ **PHOTO #34)** A view of Barrier #2 night work, utilizing a tow behind light tower



Photo Log



▲ **PHOTO #35)** A WhisperWatt Generator used for power to minimize night work noise

▼ **PHOTO #36)** Active injection points on Barrier #2 with absorbent spill mats below



Photo Log



▲ **PHOTO #37)** Noise reduction mats used while Holt Services advance injection rods

▼ **PHOTO #38)** Noise reduction mats used while Holt Services advance injection rods



Photo Log



▲ **PHOTO #39)** A view of site setup while Barrier #2 installation occurs

▼ **PHOTO #40)** A view of the REGENESIS injection trailer staged in Barrier #3



Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Appendix D
Backfill Material Analytical Results

Transmittal

Titan Earthwork
1585 Valentine Ave SE Pacific, WA 98047

Project Name: Ultra Custom Care Cleaners Site Soil Remediation
Client Project Number: 0019.05.T012.ST1
General Contractor: TITAN Earthwork
Owner: City of Bothell

Submittal No.: ***TE - 003 Aggregates***

Date: **11/2/2023**

To: City of Bothell
Attention:

Remarks:

Prepared by: Leta Luppino

Dwg No(s)/Ref(s): Civil
Subcontractor/Manufacturer/Supplier: Cal Portland

Cc:

By: 

SPACE BELOW FOR RESIDENT ENGINEER

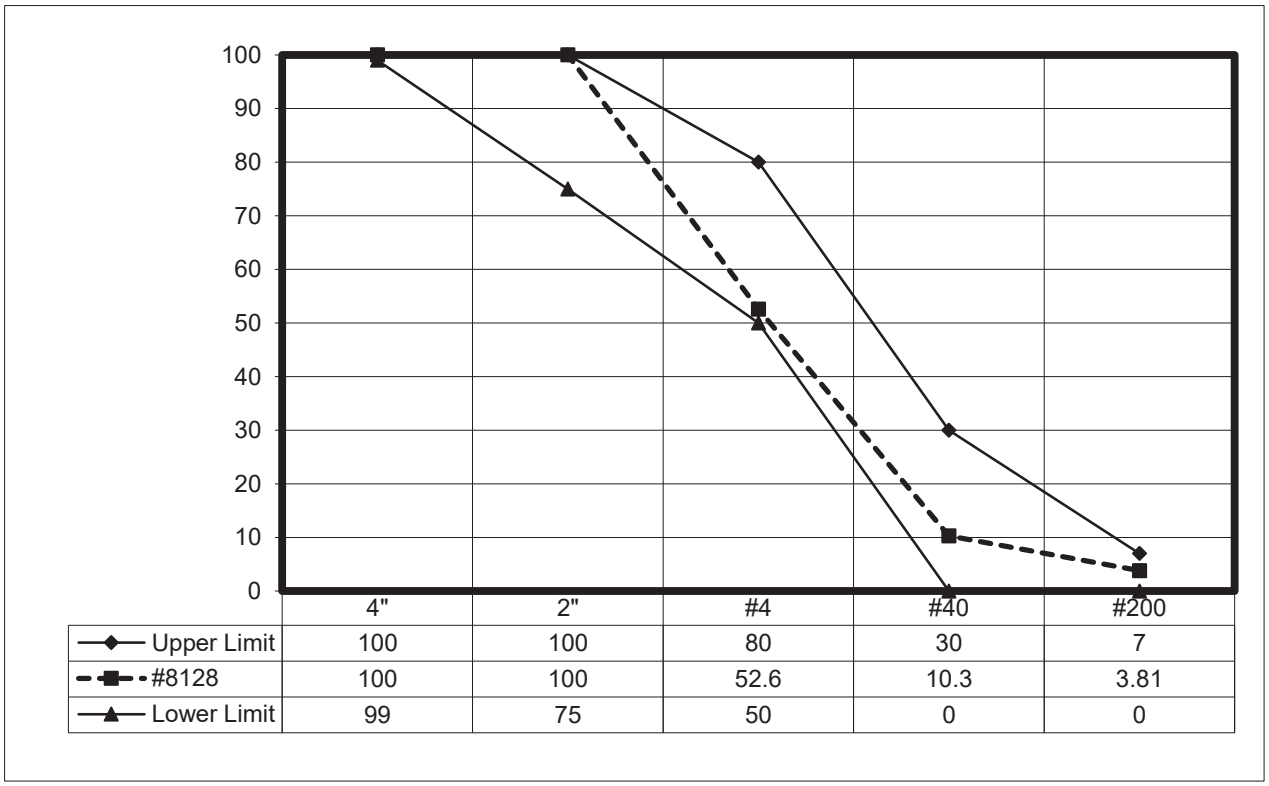
CalPortland - Aggregate Submittal

Date:	February 3, 2023
Product Number:	8128
Product Description:	Gravel Borrow
Specification Number:	WSDOT, 9-03.14(1)
Source:	Pioneer Aggregates
Location:	DuPont WA
WSDOT Pit Number:	B-335

Specification:

4" square	99-100% passing	% Fracture	-
2" square	75-100	Sand Equivalent	50 min.
U.S. No. 4	50-80	L.A. Wear	-
U.S. No. 40	30 max	Degradation:	-
U.S. No. 200	7 max	Dust Ratio	-

Specific Gravity:	2.712	**% Fracture:**	-
Absorption:	1.34	**Sand Equivalent:**	68
L.A. Abrasion:	13.0%	**Dust Ratio:**	-
Degradation:	75		



	4"	2"	#4	#40	#200
Upper Limit	100	100	80	30	7
#8128	100	100	52.6	10.3	3.81
Lower Limit	99	75	50	0	0

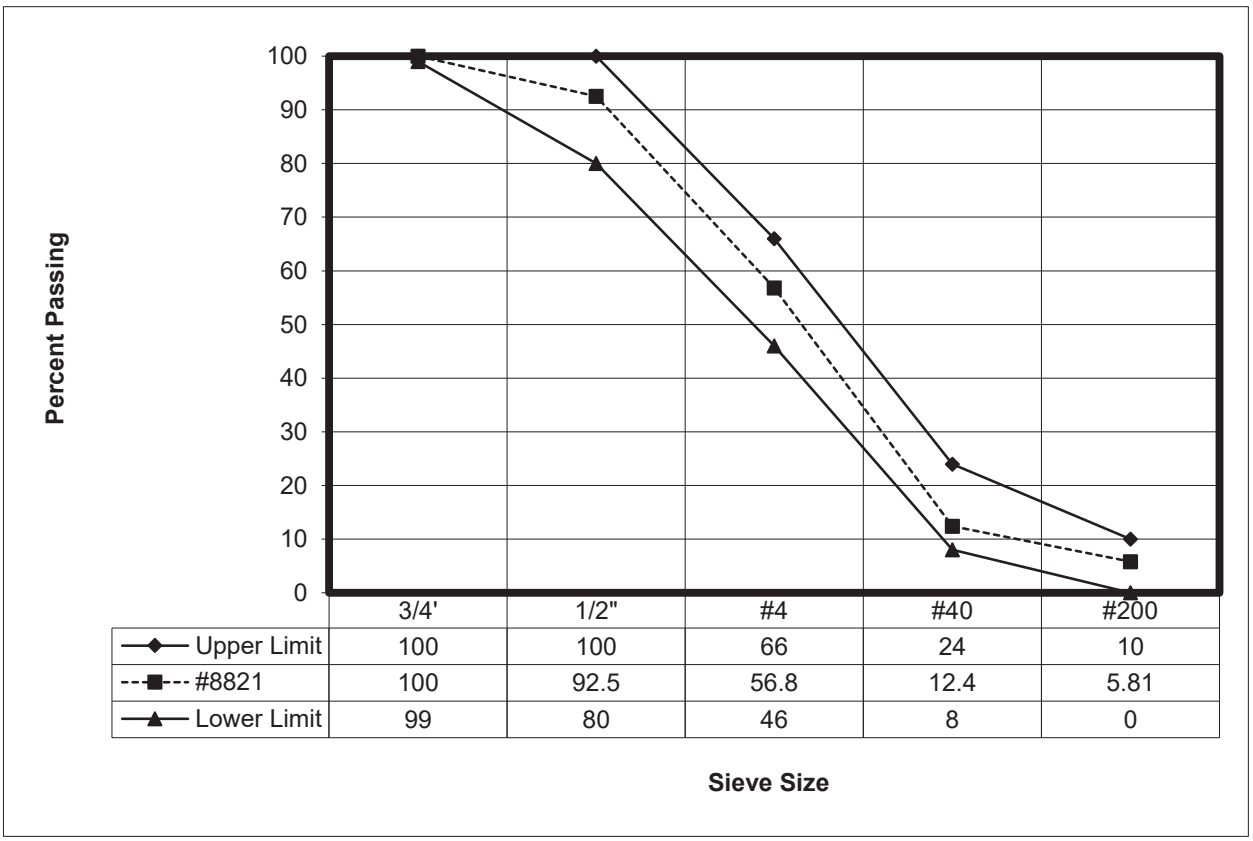
CalPortland- Aggregate Submittal

Date:	August 31, 2023
Product Number:	8821
Product Description:	Crushed Surfacing Top Course
Specification Number:	WSDOT 9-03.9(3)
Source:	Pioneer Aggregates
Location:	DuPont, WA
WSDOT Pit Number:	B-335

Specification:

3/4" square	99-100% Pass	% Fracture	75 min.
1/2" square	80-100	Sand Equivalent	40 min.
U.S. No. 4	46-66	L.A. Wear	35% max.
U.S. No. 40	8-24	Degradation:	25 min.
U.S. No. 200	10.0 max.		

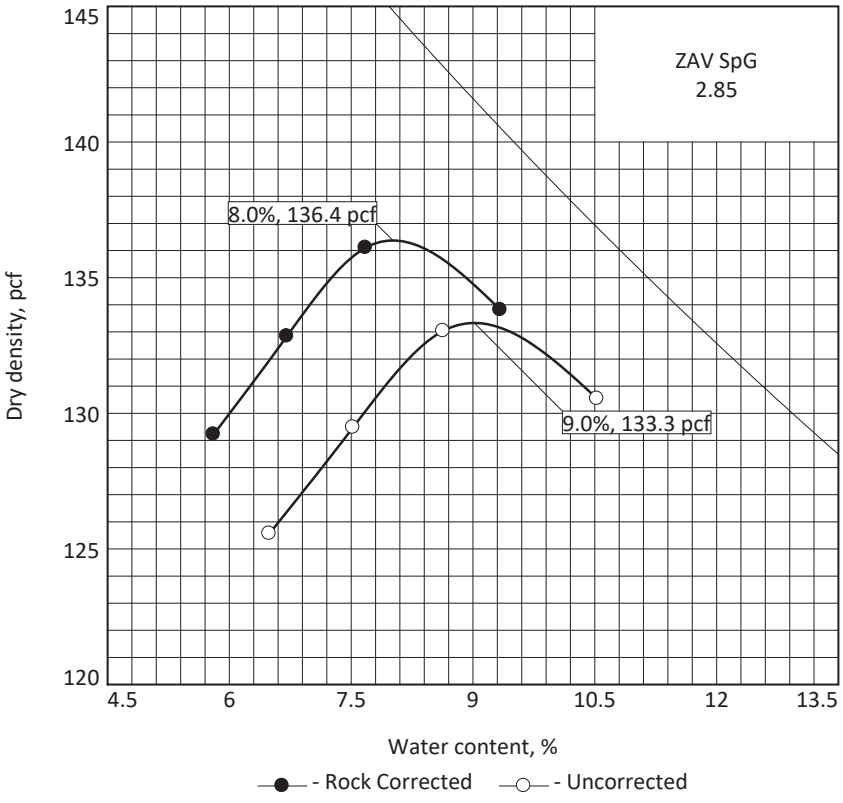
Specific Gravity:	2.721	**% Fracture:**	95%
Absorption:	0.75	**Sand Equivalent:**	60
L.A. Abrasion:	12.0%	**Dust Ratio:**	0
Degradation:	76		



	3/4'	1/2"	#4	#40	#200
Upper Limit	100	100	66	24	10
#8821	100	92.5	56.8	12.4	5.81
Lower Limit	99	80	46	8	0

Gravel Borrow

MOISTURE DENSITY RELATIONSHIP REPORT



Curve No.
1346

Test Specification:
ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Preparation Method	Wet
Hammer Wt.	10 lb.
Hammer Drop	18 in.
Hammer Type:	automatic
Layers five **Blows/Layer**	56
Mold Size	0.075 cu. ft.

Test Performed on Material
Passing 3/4 in. **Sieve**

NM	3.7%	**LL**		**PI**	
Sp.G. (assumed):	2.6				
%>3/4 in.	12.5	**%<No.200**	2.9		
USCS	SP	**AASHTO**	A-1-a		
Date Sampled	11/14/2023				
Date Received	11/14/2023				
Date Tested	11/16/2023				
Tested By	Andy Duong				

TESTING DATA	1	2	3	4	5	6
WM + WS	11119.0	11486.0	11478.0	11306.0		
WM	6578.0	6578.0	6578.0	6578.0		
WW + T #1	697.1	718.6	615.2	641.7		
WD + T #1	654.6	661.5	556.6	596.8		
TARE #1	0.0	0.0	0.0	0.0		
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	5.8	7.7	9.3	6.7		
DRY DENSITY	129.2	136.1	133.8	132.8		

ROCK CORRECTED TEST RESULTS	UNCORRECTED
Maximum dry density = 136.4 pcf	133.3 pcf
Optimum moisture = 8.0 %	9.0 %

Material Description
ORA sample ID: 1346 Gray poorly graded sand with gravel (Type 17)

Remarks:
Test equipment ID: Set 4

Project No. 23-0767 **Client:** Titan Earthwork, LLC
Project: Bothell Ultra Custom Care Cleaners
10032 NE 183rd St, Bothell
○ **Location:** Client delivered **Sample Number:** 1346

Checked by: Anthony Coyne, P.E.
Title: Professional Engineer

OTTO ROSENAU & ASSOCIATES, INC.

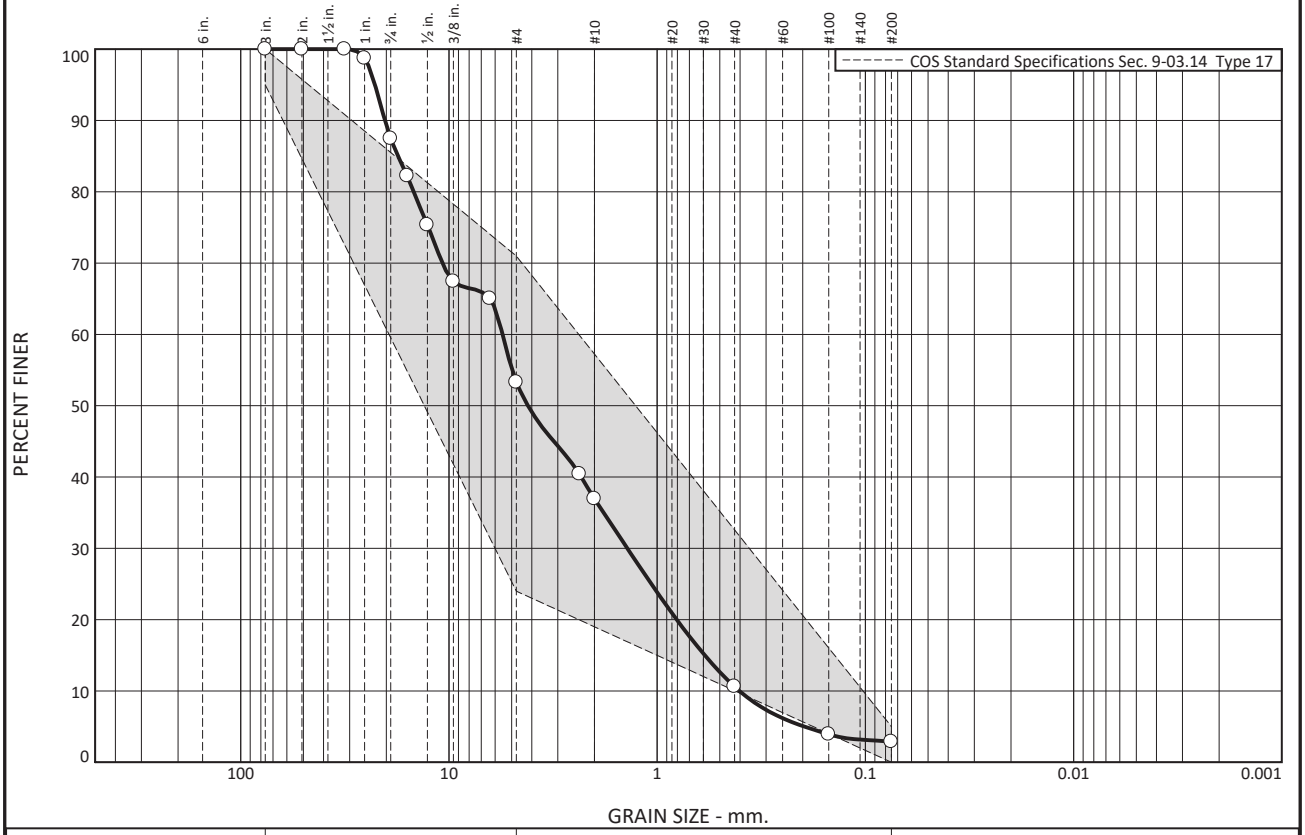
Figure 1346

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Gravel Borrow

Particle Size Distribution Report

ASTM D422 & D1140



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	12.5	34.2	16.4	26.3	7.7	2.9	

Test Results (ASTM D422 & D1140)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)	Pct. of Fines
3	100.0	95-100		
2	100.0			
1 1/4	100.0			
1	98.7			
3/4	87.5			
5/8	82.2			
1/2	75.4			
3/8	67.4			
1/4	65.0			
#4	53.3	24-71		
#8	40.4			
#10	36.9			
#40	10.6			
#100	3.9			
#200	2.9	0-5		

* COS Standard Specifications Sec. 9-03.14 Type 17

Material Description

ORA sample ID: 1346 Gray poorly graded sand with gravel (Type 17)

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 20.3032 D_{85}= 17.5513 D_{60}= 5.5254
D_{50}= 4.1757 D_{30}= 1.3909 D_{15}= 0.5904
D_{10}= 0.4031 C_u= 13.71 C_c= 0.87

Classification

USCS= SP AASHTO= A-1-a

Test Remarks

Test equipment ID: Set 5
Was sample soaked? Not required
As received MC: 3.7%

Location: Client delivered
Sample Number: 1346

Sample Date: 11/14/2023

OTTO ROSENAU & ASSOCIATES, INC.

Client: Titan Earthwork, LLC
Project: Bothell Ultra Custom Care Cleaners
10032 NE 183rd St, Bothell
Project No: 23-0767

Figure 1346

Tested By: Andy Duong **Checked By:** Anthony Coyne, P.E.

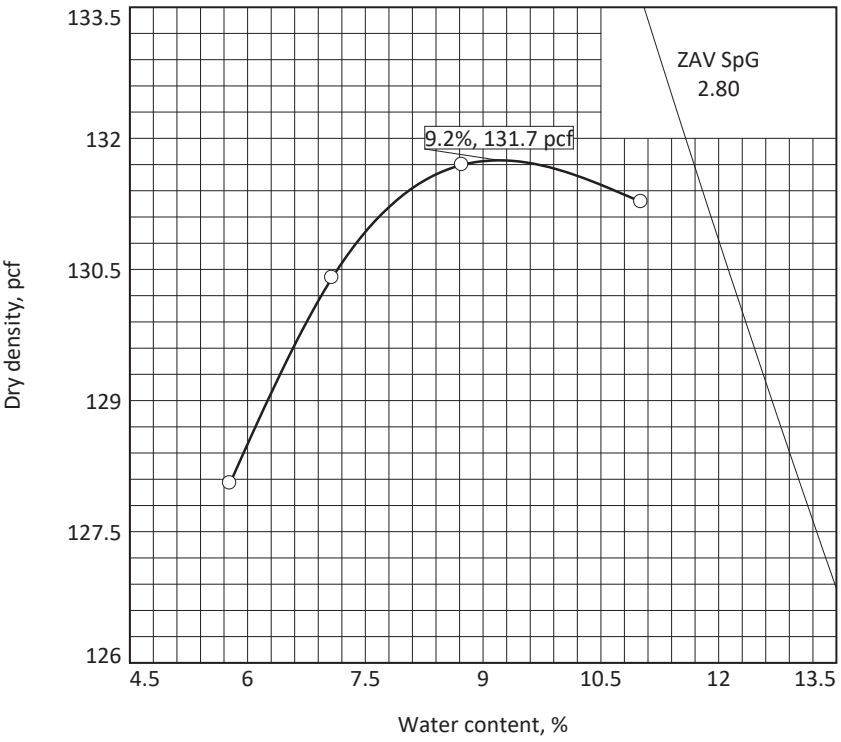
Anthony Coyne, P.E. Date: 2023.11.20 09:53:00 -08'00'

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CSTC

MOISTURE DENSITY RELATIONSHIP REPORT

Curve No.
1367



Test Specification:
ASTM D 1557-12 Method C Modified

Preparation Method	Wet
Hammer Wt.	10 lb.
Hammer Drop	18 in.
Hammer Type:	automatic
Layers five **Blows/Layer**	56
Mold Size	0.075 cu. ft.
Test Performed on Material Passing	3/4 in. **Sieve**
NM 6.0% **LL**	**PI**
Sp.G. (assumed):	2.6
%>3/4 in. 0.0 **%<No.200**	6.5
USCS SP-SM **AASHTO**	A-1-a
Date Sampled	12/5/2023
Date Received	12/5/2023
Date Tested	12/6/2023
Tested By	Ethan Dunaway

TESTING DATA	1	2	3	4	5	6
WM + WS	11439.0	11525.0	11176.0	11318.0		
WM	6576.0	6576.0	6576.0	6576.0		
WW + T #1	542.9	627.0	562.2	532.6		
WD + T #1	499.3	564.8	531.5	497.4		
TARE #1	0.0	0.0	0.0	0.0		
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	8.7	11.0	5.8	7.1		
DRY DENSITY	131.7	131.3	128.1	130.4		

TEST RESULTS

Maximum dry density = 131.7 pcf

Optimum moisture = 9.2 %

Material Description

ORA sample ID: 1367 Gray poorly graded sand with silt and gravel (CSTC)

Remarks:
Test equipment ID: Set 4

Project No. 23-0767 **Client:** Titan Earthwork, LLC
Project: Bothell Ultra Custom Care Cleaners
10032 NE 183rd St, Bothell
○ **Location:** Client delivered **Sample Number:** 1367

Checked by: Anthony Coyne, P.E.
Title: Professional Engineer

OTTO ROSENAU & ASSOCIATES, INC.

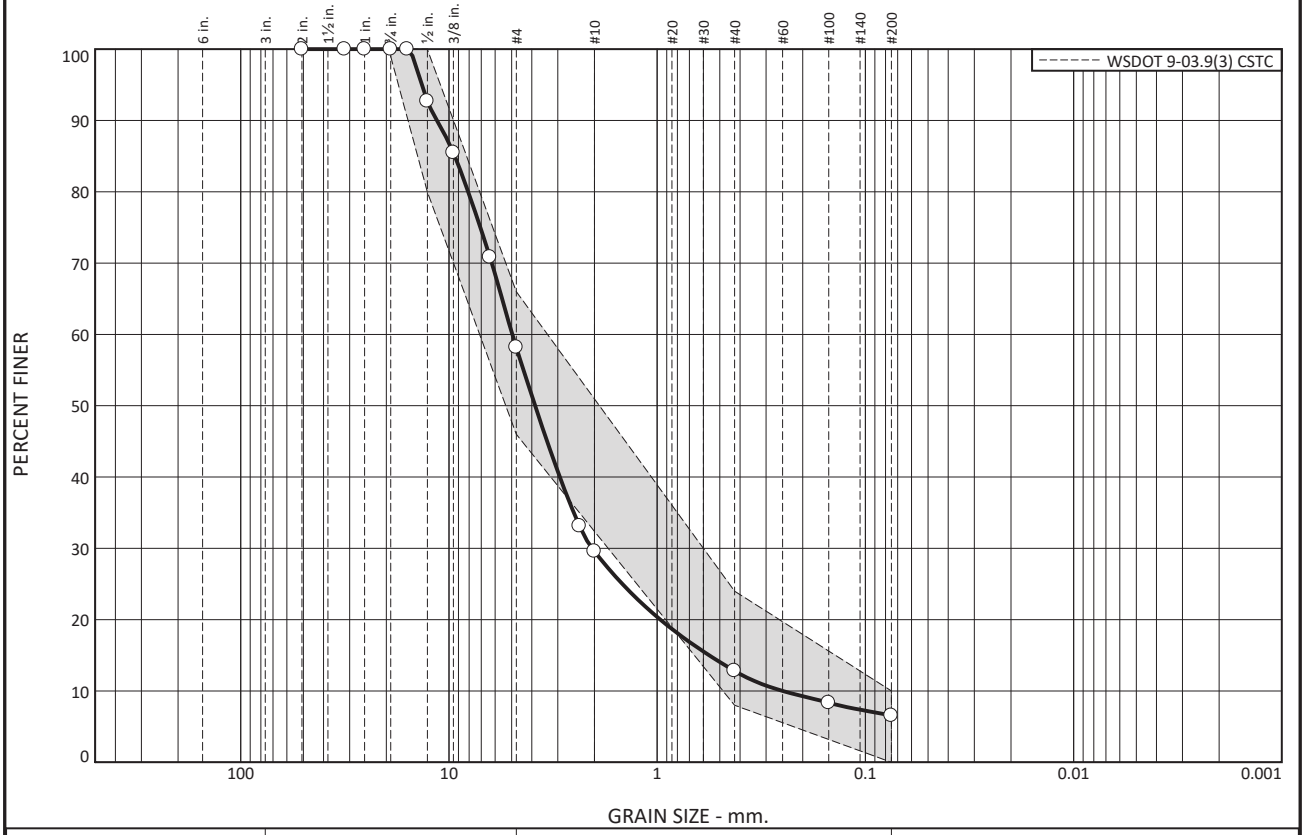
Figure 1367

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CSTC

Particle Size Distribution Report

ASTM D422 & D1140



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	41.8	28.6	16.8	6.3	6.5	

Test Results (ASTM D422 & D1140)

Sieve Size or Diam. (mm.)	Finer (%)	Spec.* (%)	Out of Spec. (%)	Pct. of Fines
2	100.0			
1 1/4	100.0			
1	100.0			
3/4	100.0	99-100		
5/8	100.0			
1/2	92.7	80-100		
3/8	85.5			
1/4	70.8			
#4	58.2	46-66		
#8	33.1			
#10	29.6			
#40	12.8	8-24		
#100	8.3			
#200	6.5	0-10		

* WSDOT 9-03.9(3) CSTC

Material Description

ORA sample ID: 1367 Gray poorly graded sand with silt and gravel (CSTC)

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 11.4222 D_{85}= 9.3792 D_{60}= 4.9658
D_{50}= 3.8564 D_{30}= 2.0529 D_{15}= 0.5621
D_{10}= 0.2495 C_u= 19.90 C_c= 3.40

Classification

USCS= SP-SM AASHTO= A-1-a

Test Remarks

Test equipment ID: Set 5
Was sample soaked? Not required
As received MC: 6.0%

Location: Client delivered
Sample Number: 1367

Sample Date: 12/5/2023

OTTO ROSENAU & ASSOCIATES, INC.

Client: Titan Earthwork, LLC
Project: Bothell Ultra Custom Care Cleaners
10032 NE 183rd St, Bothell
Project No: 23-0767

Figure 1367

Tested By: Andy Duong **Checked By:** Anthony Coyne, P.E.

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3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

CalPortland
Annie Livengood
5975 E Marginal Way S
Seattle, WA 98134

RE: Dupont Agg
Work Order Number: 2311442

November 28, 2023

Attention Annie Livengood:

Fremont Analytical, Inc. received 1 sample(s) on 11/27/2023 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,



Brianna Barnes
Project Manager

Date: *11/28/2023*

CLIENT: CalPortland
Project: Dupont Agg
Work Order: 2311442

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2311442-001	Dupont Grab	11/27/2023 10:15 AM	11/27/2023 12:27 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2311442**
Date: **11/28/2023**

CLIENT: CalPortland
Project: Dupont Agg

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers & Acronyms

WO#: **2311442**
Date Reported: **11/28/2023**

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2311442**

Date Reported: **11/28/2023**

Client: CalPortland **Collection Date:** 11/27/2023 10:15:00 AM

Project: Dupont Agg

Lab ID: 2311442-001 **Matrix:** Soil

Client Sample ID: **Dupont Grab**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Metals by EPA Method 6020B				Batch ID: 42140		Analyst: JR
Arsenic	2.13	0.216		mg/Kg-dry	1	11/28/2023 2:48:00 PM
Cadmium	0.0432	0.0173		mg/Kg-dry	1	11/28/2023 2:48:00 PM
Chromium	12.6	0.216		mg/Kg-dry	1	11/28/2023 2:48:00 PM
Lead	1.98	0.863		mg/Kg-dry	1	11/28/2023 2:48:00 PM
Mercury	ND	0.173		mg/Kg-dry	1	11/28/2023 2:48:00 PM
Sample Moisture (Percent Moisture)				Batch ID: R87961		Analyst: MP
Percent Moisture	5.04	0.500		wt%	1	11/28/2023 8:31:35 AM

Work Order: 2311442
CLIENT: CalPortland
Project: Dupont Agg

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: **MB-42140**	SampType: **MBLK**	Units: **mg/Kg**	Prep Date: **11/27/2023**	RunNo: **87996**
Client ID: **MBLKS**	Batch ID: **42140**		Analysis Date: **11/28/2023**	SeqNo: **1837316**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.207									
Cadmium	ND	0.0165									
Chromium	ND	0.207									
Lead	ND	0.826									
Mercury	ND	0.165									

Sample ID: **LCS-42140**	SampType: **LCS**	Units: **mg/Kg**	Prep Date: **11/27/2023**	RunNo: **87996**
Client ID: **LCSS**	Batch ID: **42140**		Analysis Date: **11/28/2023**	SeqNo: **1837317**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	41.7	0.197	39.37	0	106	80	120				
Cadmium	2.15	0.0157	1.969	0	109	80	120				
Chromium	42.5	0.197	39.37	0	108	80	120				
Lead	21.9	0.787	19.69	0	111	80	120				
Mercury	1.06	0.157	0.9843	0	108	80	120				

Sample ID: **2311442-001AMS**	SampType: **MS**	Units: **mg/Kg-dry**	Prep Date: **11/27/2023**	RunNo: **87996**
Client ID: **Dupont Grab**	Batch ID: **42140**		Analysis Date: **11/28/2023**	SeqNo: **1837320**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	42.7	0.209	41.79	2.128	97.2	75	125				
Cadmium	2.22	0.0167	2.090	0.04316	104	75	125				
Chromium	51.6	0.209	41.79	12.60	93.3	75	125				
Lead	24.0	0.836	20.90	1.977	105	75	125				
Mercury	1.12	0.167	1.045	0.02719	105	75	125				

Work Order: 2311442
CLIENT: CalPortland
Project: Dupont Agg

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: **2311442-001AMSD** SampType: **MSD** Units: **mg/Kg-dry** Prep Date: **11/27/2023** RunNo: **87996**
Client ID: **Dupont Grab** Batch ID: **42140** Analysis Date: **11/28/2023** SeqNo: **1837321**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	38.6	0.212	42.46	2.128	85.9	75	125	42.74	10.1	20	
Cadmium	2.02	0.0170	2.123	0.04316	93.3	75	125	2.216	9.05	20	
Chromium	45.8	0.212	42.46	12.60	78.3	75	125	51.58	11.8	20	
Lead	21.7	0.849	21.23	1.977	92.7	75	125	23.98	10.2	20	
Mercury	1.04	0.170	1.062	0.02719	95.0	75	125	1.124	8.15	20	

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An Alliance Technical Group Company

Sample Log-In Check List

Client Name:	CALPO	Work Order Number:	2311442
Logged by:	Lyann Rivera	Date Received:	11/27/2023 12:27:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
4.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
6.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
7.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8.	Are samples properly preserved?	Yes ☑	No ☐	
9.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
11.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
12.	Does paperwork match bottle labels?	Yes ☑	No ☐	
13.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14.	Is it clear what analyses were requested?	Yes ☑	No ☐	
15.	Were all hold times (except field parameters, pH e.g.) able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

Item Information

Item #	Temp ºC
Sample	19.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
An Alliance Technical Group Company
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790

Date: 11/27/2023 Page: 1 of: 1

Laboratory Project No (internal): 231442

Project Name: DuPont Hg9

Special Remarks:

Client: Glacier NW, Inc. dba Calportland

Project No: N/A

Address: 3490 S 344th Way, Ste 201

Collected by: Jared Pedroza

City, State, Zip: Federal Way, WA 98001

Location:

Telephone: (253) 212-4601

Report To (PM): Annie Livengood

Disposal: Samples will be disposed in 30 days unless otherwise requested.
☐ Retain volume (specify above) ☐ Return to client

Email(s): alivengood@calportland.com

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 DuPont Grab	11/27/23	10:15 AM	S	1									X			Cr (total), Hg (inorganic)
2																
3																
4																
5																
6																
7																
8																
9																
10																

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al (As) B Ba Be Ca (Cd) Co (Cr) Cu Fe (Hg) K Mg Mn Mo Na Ni (Pb) Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
~~☒ Standard~~ ☒ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Annie Livengood	11/27/23 12:27PM	x	Lily Baumgart	11/27/23 12:27
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Appendix E
Photograph Log



Photograph 1. Titan Earthwork LLC (Titan) begins excavation of Area C. December 12, 2023.



Photograph 2. Titan direct-loading excavated contaminated soil for off-site disposal. December 14, 2023.



Photograph 3. Titan conducting zero-valent iron (ZVI) soil mixing using an excavator bucket at the base of Area C. December 18, 2023.



Photograph 4. Titan backfilling and compacting the Area C excavation. December 21, 2023.



Photograph 5. Completed hardscape restoration of Area C. January 2, 2024.



Photograph 6. Conducting a ground-penetrating radar survey for utility locates at Barrier 3. September 23, 2025.



Photograph 7. Holt Services, Inc. (Holt) installing UCCMW-41D with a hollow-stem-auger drill rig. September 29, 2025.



Photograph 8. Holt injecting at Barrier 5 via direct-push rods while conducting verification testing at the piezometer. September 30, 2025.



Photograph 9. Injectate surfacing at Barrier 5; borehole sealed with bentonite. October 2, 2025.



Photograph 10. Holt injecting three injection points (IPs) at supplemental treatment zone TZ 3. October 6, 2025.



Photograph 11. Holt injecting three IPs at Barrier 4. October 9, 2025.



Photograph 12. IPs set up along Barrier 3. October 11, 2025.



Photograph 13. Holt injecting the final IP of Barrier 1. November 6, 2025.



Photograph 14. Holt injecting Barrier 2. November 7, 2025.



Photograph 15. Holt vacuuming surfacing injectate while injecting Barrier 2. November 11, 2025.



Photograph 16. Supplemental treatment zone TZ 2 injections. November 12, 2025.



Photograph 17. Demobilizing from the right-of-way after supplement treatment zone TZ 1 injections. November 13, 2025.



Photograph 18. Holt using acoustic barriers while drilling at Barrier 2 during night work. November 16, 2025.



Photograph 19. Injecting Barrier 2 during night work. November 16, 2025.



Photograph 20. Holt restoring utility potholes in the Ranch Drive-In parking lot with hot-mix asphalt. November 25, 2025.

Phase 1 Construction Summary

Ultra Custom Care Cleaners Site

Appendix F
Boring and Well Completion Logs

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PROJECT: COB-Ultra	**SITE ADDRESS:** 18304 Bothell Way NE	**BORING ID:** **B5-piezometer1**
LOGGED BY: KA	**BORING LOCATION:** Lot E,F,G	
DRILLED BY: Holt (Louie)	**NORTHING:**	**EASTING:**
DRILLING EQUIPMENT: Geoprobe LAR	**GROUND SURFACE ELEVATION:**	**COORDINATE SYSTEM:**
DRILLING METHOD: Direct push	**TOTAL DEPTH (ft bgs):** 50	**DEPTH TO WATER (ft bgs):** 14
SAMPLING METHOD/SAMPLER LENGTH: Continuous 5-foot liners	**BORING DIAMETER:** 2"	**DRILL DATE:** 9/29/2025

Depth (feet)	USCS Symbol	Soil Description and Observations (color, texture, moisture, **MAJOR CONSTITUENT**, odor, staining, sheen, debris, etc.)	Drive/ Recovery	PID (ppm)	Sample ID
0–4	SW	Brown, well graded **SAND** with gravel and debris, dry [FILL].			
4–10	SP	Gray, poorly graded, fine **SAND**, moist, potential alluvium.			
10–11	PT	**PEAT** with silt.			
11–14	ML	Gray brown **SILT**, medium plasticity, moist. At 12 ft. bgs becomes gray, coarsens with depth.			
14–18	SP	Brown, poorly graded, fine **SAND**, wet. At 15 ft. bgs becomes red brown, becomes finer with depth.			
18–27	SP-SM	Gray, poorly graded, fine **SAND** with silt.			

ABBREVIATIONS:
ft bgs = feet below ground surface
ppm = parts per million
USCS = Unified Soil Classification System
▼ = denotes groundwater table

NOTES:

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PROJECT: COB-Ultra	**SITE ADDRESS:** 18304 Bothell Way NE	**BORING ID:** B5-piezometer1	
LOGGED BY: KA	**BORING LOCATION:** Lot E,F,G		
DRILLED BY: Holt (Louie)	**NORTHING:**	**EASTING:**	
DRILLING EQUIPMENT: Geoprobe LAR	**GROUND SURFACE ELEVATION:**	**COORDINATE SYSTEM:**	
DRILLING METHOD: Direct push	**TOTAL DEPTH (ft bgs):** 50	**DEPTH TO WATER (ft bgs):** 14	
SAMPLING METHOD/SAMPLER LENGTH: Continuous 5-foot liners	**BORING DIAMETER:** 2"	**DRILL DATE:** 9/29/2025	

Depth (feet)	USCS Symbol	Soil Description and Observations (color, texture, moisture, **MAJOR CONSTITUENT**, odor, staining, sheen, debris, etc.)	Drive/ Recovery	PID (ppm)	Sample ID
28		Gray, poorly graded, fine **SAND** with silt.			
29					
30	SP	Gray, medium **SAND**.			
31		At 31 ft. bgs becomes very fine, gray brown.			
32					
33					
34					
35		At 35 ft. bgs 1-foot of coarse sand slough then same as above. Very dense.			
36					
37	ML	Gray and red brown **SANDY SILT**, loose, wet.			
38					
39	SP	Poorly graded, medium **SAND**.			
40					
41					
42					
43					
44					
45		At 45 ft. bgs gravels up to 1-inch diameter become present, become finer with depth.			
46					
47					
48					
49					
50		Bottom of boring at 50 ft. bgs.			

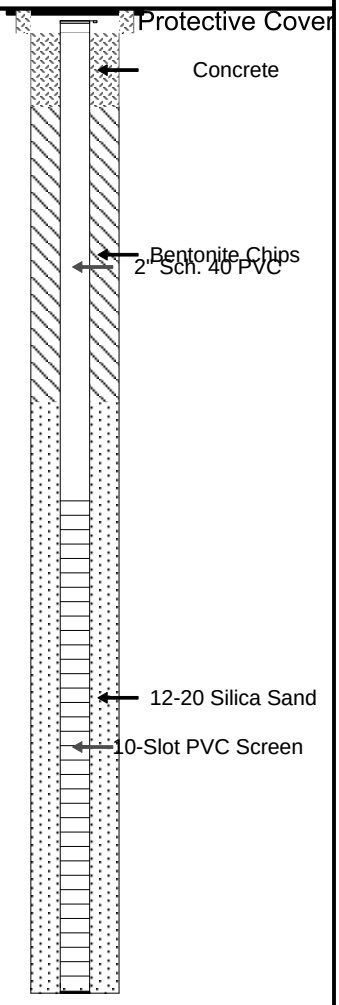
ABBREVIATIONS:
ft bgs = feet below ground surface
ppm = parts per million
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NOTES:

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PROJECT: **COB-Ultra**	LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-37**
LOGGED BY: **KA**	BORING LOCATION: **Source Property**	ECOLOGY WELL ID: **BRJ 088**
DRILLED BY: **Holt**	COORDINATE SYSTEM: **NAD 83**	NORTHING: **280570.894**	EASTING: **1302522.696**
DRILLING EQUIPMENT: **B-37 Mobile Drill**	SCREENED INTERVAL (ft bgs): **10-20**	GROUND SURFACE ELEV.: **46.98**	TOC ELEVATION: **46.71**
DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **21.5**	DEPTH TO WATER (ft bgs): **10.75**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **10/20/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot
0		No sample from 0 to 10 ft. bgs.		
5	NS			
10	SP-SM	Brown, poorly graded, very fine **SAND** with silt, medium dense, moist, some gray mottling.		13
11		Gray, poorly graded, medium **SAND**, wet.		
13	SP			
15		Brown, poorly graded, fine **SAND** with silt, wet.		25
18	SP-SM			
20	SP	Gray brown, poorly graded, medium **SAND**, wet.		41
21	GW	Well graded **GRAVEL** with well graded sand. Bottom of boring at 21.5 ft. bgs.		



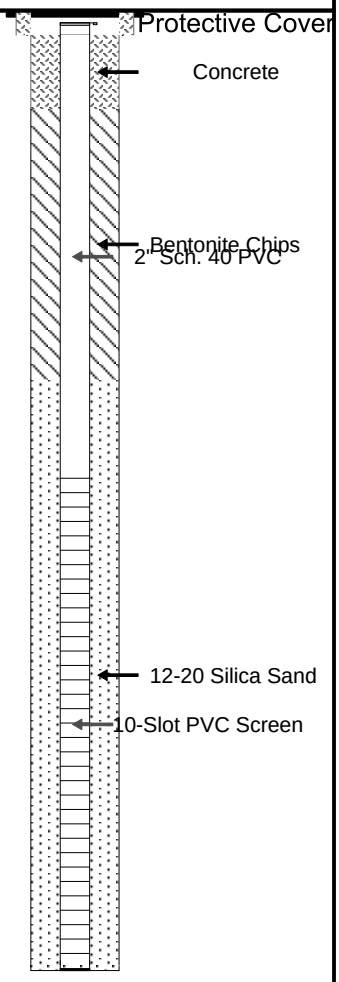
ABBREVIATIONS:
ft bgs = feet below ground surface
ppm = parts per million
USCS = Unified Soil Classification System
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NOTES:

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PROJECT: **COB-Ultra**	LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-38**
LOGGED BY: **KA**	BORING LOCATION: **Speedy Glass Property**	ECOLOGY WELL ID: **BRJ 094**
DRILLED BY: **Holt (Abe)**	COORDINATE SYSTEM: **NAD 83**	NORTHING: **280374.771**	EASTING: **1302538.288**
DRILLING EQUIPMENT: **B-57 Mobile Drill**	SCREENED INTERVAL (ft bgs): **9.5-19.5**	GROUND SURFACE ELEV.: **40.364**	TOC ELEVATION: **39.891**
DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **21.5**	DEPTH TO WATER (ft bgs): **15**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **10/4/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot
0		No sample from 0 to 10 ft. bgs.		
5	NS			
10		Light brown, very fine **SAND** with silt, dense, moist to wet.		7
12	SP-SM			
15		Brown, poorly graded, medium **SAND**, loose, wet.		2
18	SP			
21		Bottom of boring at 21.5 ft. bgs.		21



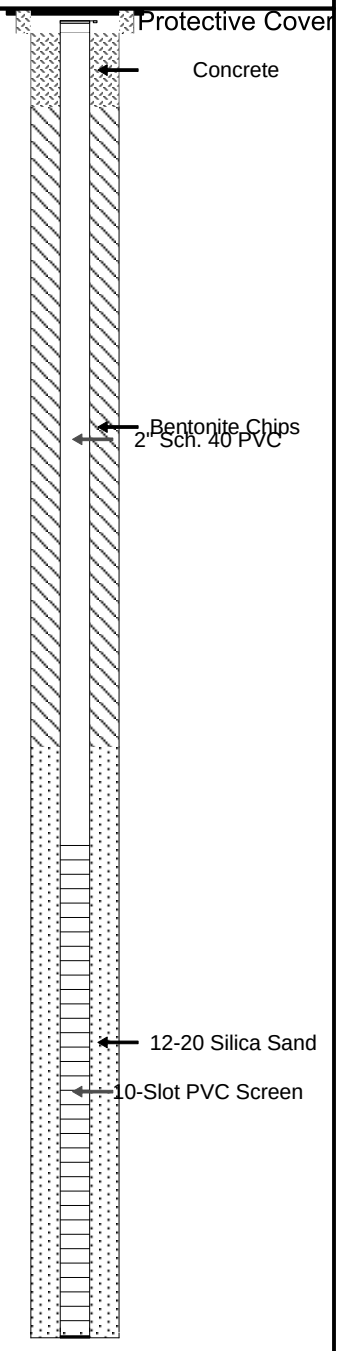
ABBREVIATIONS:
ft bgs = feet below ground surface
ppm = parts per million
USCS = Unified Soil Classification System
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NOTES:

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PROJECT: **COB-Ultra**	LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-39**
LOGGED BY: **KA**	BORING LOCATION: **Speedy Glass Property**	ECOLOGY WELL ID: **BRJ 095**
DRILLED BY: **Holt (Abe)**	COORDINATE SYSTEM: **NAD 83**	NORTHING: **280286.351**	EASTING: **1302544.178**
DRILLING EQUIPMENT: **B-57 Mobile Drill**	SCREENED INTERVAL (ft bgs): **17-27**	GROUND SURFACE ELEV.: **39.707**	TOC ELEVATION: **39.369**
DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **26.5**	DEPTH TO WATER (ft bgs): **16**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **10/4/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot
0	NS	No sample from 0 to 15 ft. bgs.		
15	GW	Well graded **GRAVEL** with sand and silt, appears to be engineered fill, petroleum-like odor, no sheen, asphalt debris at bottom of gravel unit.		18
16	SP	Brown, poorly graded, fine **SAND**, dense, wet.		
20	SP-SM	Very fine **SAND** with silt, very dense.		12
25	SP	Brown, poorly graded, fine **SAND**.		17
26		Bottom of boring at 26.5 ft. bgs.		



Well Construction

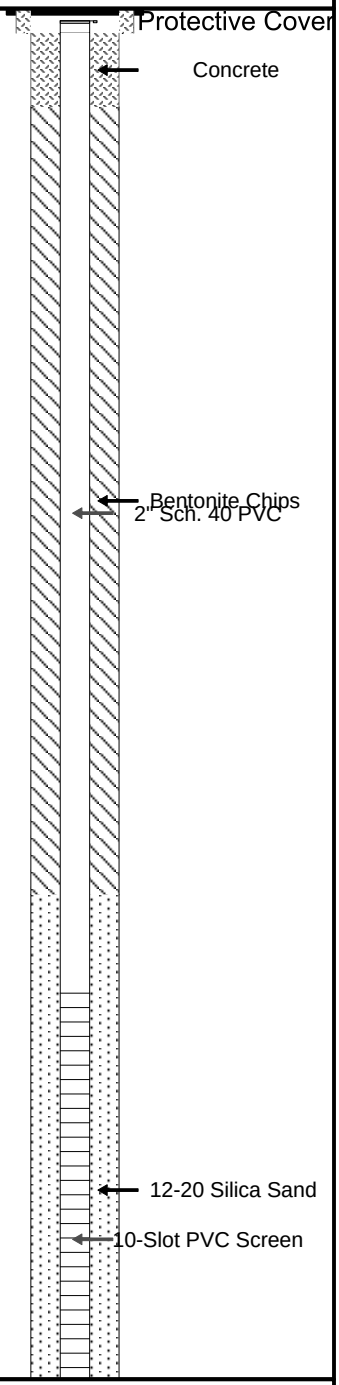
ABBREVIATIONS:
ft bgs = feet below ground surface
ppm = parts per million
USCS = Unified Soil Classification System
▼ = denotes groundwater table

NOTES:

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PROJECT: **COB-Ultra**	LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-40D**
LOGGED BY: **RA**	BORING LOCATION: **Lot E,F,G**	ECOLOGY WELL ID: **BRJ 098**
DRILLED BY: **Holt (Isaiah)**	COORDINATE SYSTEM: **NAD 83**	NORTHING: **280173.839**	EASTING: **1302568.49**
DRILLING EQUIPMENT: **CME**	SCREENED INTERVAL (ft bgs): **20-30**	GROUND SURFACE ELEV.: **37.942**	TOC ELEVATION: **37.66**
DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **34**	DEPTH TO WATER (ft bgs): **15**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **10/1/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot
0	NS	No sample from 0 to 15 ft. bgs.		
15	SP	Brown, poorly graded, medium **SAND**, trace silt, loose, saturated, lens of orange oxidation.		7
20	SP-SM	Brown, fine **SAND** with silt, medium dense, saturated, coarsens with depth, interbedded orange oxidation lenses.		11
25		At 25 ft. bgs becomes loose.		10



ABBREVIATIONS:
ft bgs = feet below ground surface
ppm = parts per million
USCS = Unified Soil Classification System
▼ = denotes groundwater table

NOTES:

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PROJECT: **COB-Ultra**	LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-40D**
LOGGED BY: **RA**	BORING LOCATION: **Lot E,F,G**	ECOLOGY WELL ID: **BRJ 098**
DRILLED BY: **Holt (Isaiah)**	COORDINATE SYSTEM: **NAD 83**	NORTHING: **280173.839**	EASTING: **1302568.49**
DRILLING EQUIPMENT: **CME**	SCREENED INTERVAL (ft bgs): **20-30**	GROUND SURFACE ELEV.: **37.942**	TOC ELEVATION: **37.66**
DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **34**	DEPTH TO WATER (ft bgs): **15**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **10/1/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot	Well Construction
28					
29					
30		Brown, fine **SILTY SAND**, saturated			
31				13	
32	SM				
33				50/4"	
34		Bottom of boring at 34 ft. bgs.			
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					

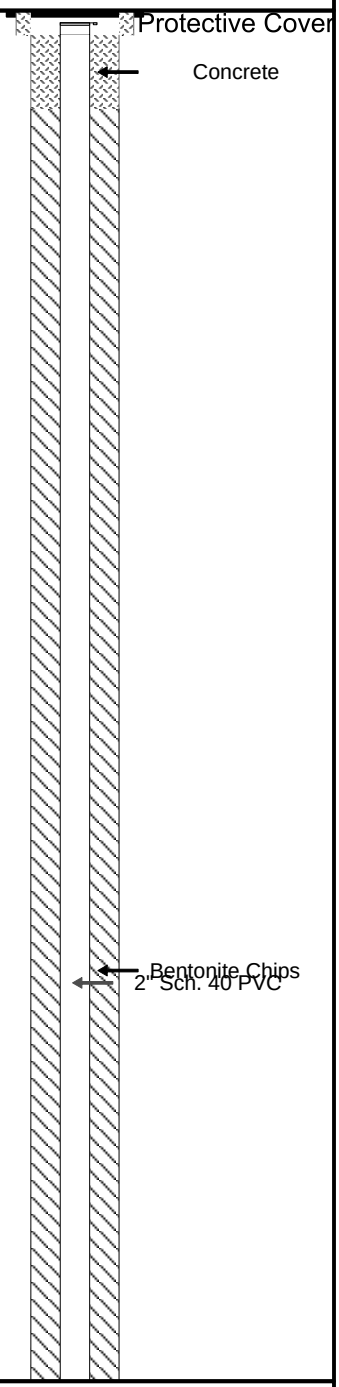
ABBREVIATIONS:
ft bgs = feet below ground surface
ppm = parts per million
USCS = Unified Soil Classification System
▼ = denotes groundwater table

NOTES:

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PROJECT: **COB-Ultra**	LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-41D**
LOGGED BY: **KA**	BORING LOCATION: **Lot E,F,G**	ECOLOGY WELL ID: **BRJ 096**
DRILLED BY: **Holt (Isaiah)**	COORDINATE SYSTEM: **NAD 83**	NORTHING: **280101.627**	EASTING: **1302628.667**
DRILLING EQUIPMENT: **CME**	SCREENED INTERVAL (ft bgs): **39-54**	GROUND SURFACE ELEV.: **37.549**	TOC ELEVATION: **37.337**
DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **51.5**	DEPTH TO WATER (ft bgs): **14**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **9/29/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot	Well Construction
0–27	NS	No sample from 0 to 40 ft. bgs. Refer to B5-Piezometer1 log for lithology from 0 to 40 ft bgs.			Protective Cover; Concrete; Bentonite Chips; 2" Sch. 40 PVC



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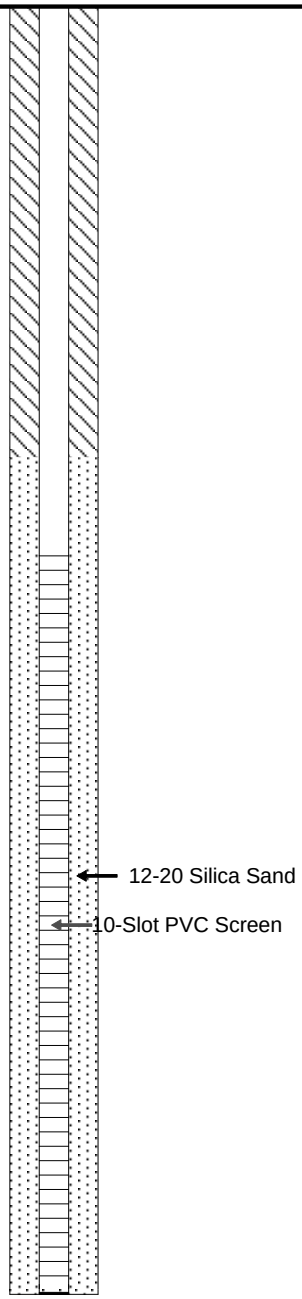
NOTES:

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PROJECT: **COB-Ultra**		LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-41D**
LOGGED BY: **KA**		BORING LOCATION: **Lot E,F,G**	ECOLOGY WELL ID: **BRJ 096**
DRILLED BY: **Holt (Isaiah)**	COORDINATE SYSTEM: **NAD 83**	NORTHING: **280101.627**	EASTING: **1302628.667**
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DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **51.5**	DEPTH TO WATER (ft bgs): **14**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **9/29/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot
40	SM	Brown and gray, very fine **SANDY SILT**, moist to very moist.		15
41		Brown, poorly graded, medium **SAND**, wet.		
45				31
46	SP			
50				25
51		Bottom of boring at 51.5 ft. bgs.		

Well Construction



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PROJECT: **COB-Ultra**	LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-42D**
LOGGED BY: **KA**	BORING LOCATION: **Lot E,F,G**	ECOLOGY WELL ID: **BRJ 097**
DRILLED BY: **Holt (Isaiah)**	COORDINATE SYSTEM: **NAD 83**	NORTHING: **280039.834**	EASTING: **1302669.496**
DRILLING EQUIPMENT: **CME**	SCREENED INTERVAL (ft bgs): **37-52**	GROUND SURFACE ELEV.: **38.064**	TOC ELEVATION: **37.578**
DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **56.5**	DEPTH TO WATER (ft bgs): **14**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **9/30/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot	Well Construction
0		No sample from 0 to 40 ft. bgs. Refer to B5-Piezometer1 log for lithology from 0 to 40 ft bgs			Protective Cover
1					Concrete
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14 ▼					
15					
16					
17					
18					
19					Bentonite Chips 2" Sch. 40 PVC
20	NS				
21					
22					
23					
24					
25					
26					
27					

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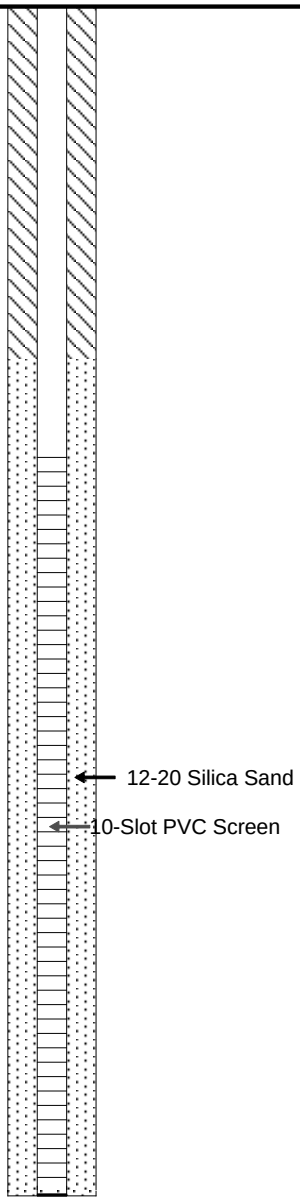
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PROJECT: **COB-Ultra**	LOCATION: **18304 Bothell Way NE**	WELL ID: **UCCMW-42D**
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DRILLING METHOD: **HSA**		TOTAL DEPTH (ft bgs): **56.5**	DEPTH TO WATER (ft bgs): **14**
SAMPLING METHOD: **Split spoon**		BORING DIAMETER (inch): **8"**	DRILL DATE: **9/30/2025**

Depth (feet)	USCS Symbol	Description	Drive/ Recovery	Blows/foot
40	SP	Brown, poorly graded, fine **SAND**, dense, wet, few rounded gravel, trace silt, some red bands of oxidation.		37
45		At 45 ft. bgs becomes fine to very fine sand, very dense, no gravel, no red bands of oxidation.		87
50				89
55		At 55 ft. bgs becomes loose.		50/3"

Well Construction



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