REED MARKET CORRIDOR ALTERNATIVE ANALYSIS

DOWL Project # 2670.14967.01

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Prepared for:
Alex Doza, PE, DBIA
Senior Project Engineer
City of Bend
575 NE 15th Street
Bend, OR 97701

Prepared by:
Nick Robertson, PE, SE
DOWL, LLC
1001 SW Emkay Drive
Suite 120
Bend, OR 97702

DOWL

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1.0 PROJECT BACKGROUND AND INTRODUCTION

1.1 Project Location

The City of Bend (City) in Central Oregon is within Deschutes County and located to the east of the Cascade Mountain Range near the Deschutes River. The City is in a high desert climate, with mild temperatures in the summer and cold but sunny winters. The City is growing with a population near 105,000 and Reed Market Road is one of the main arterials carrying east-west traffic through the city.

The project site is approximately one mile east of Highway 97, the City's main north-south thoroughfare, and approximately 2.5 miles southeast of the city center (Figure 1). The project limits extend east to west from the American Lane Intersection to approximately 250 feet east of SE Quill Place and are bisected by the Burlington Northern Santa Fe (BNSF) railroad. The north-south limits include 1,000 feet (ft) of the railroad right-of-way (ROW) past Reed Market Road in each direction. Additional work limits to the south include the new American Lane bridge and old American Lane bridge over the Central Oregon Irrigation District (COID) Canal, driveway access to nearby businesses, and Quill Place. To the north, SE 9th Street for up to approximately 375 ft and driveway access to nearby businesses are included in the project area.

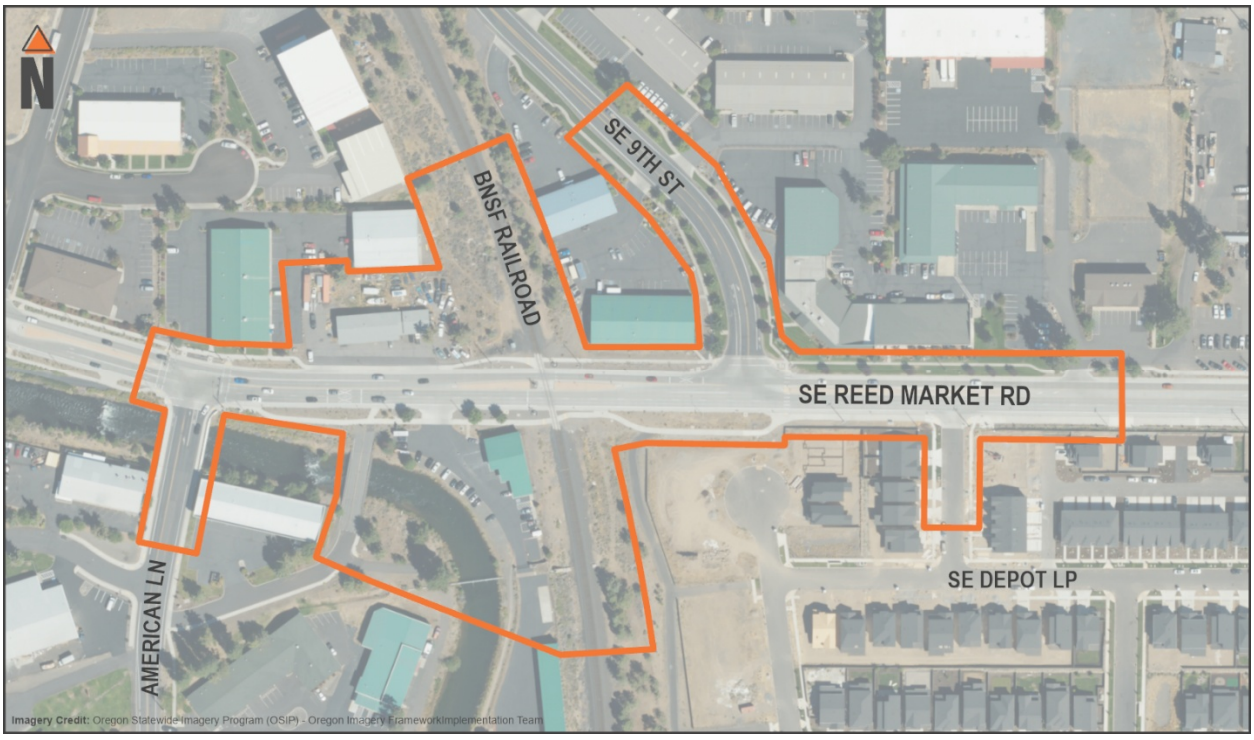


Figure 1. Reed Market Project Location and Approximate API

1.2 Project Overview

In 2020, Bend voters passed a $190-million-dollar General Obligation (GO) Bond to complete priority transportation projects throughout the city. One of the cornerstone projects that led to the GO Bond measure passing was the grade-separated crossing of the BNSF rail line on Reed Market Road. Currently, six to eight trains cross Reed Market Road each day, which creates delays between five and 20 minutes, leading to increased greenhouse gas emissions, compromised emergency response times, and presents an ongoing constraint to travel for all users along this critical east-west corridor. Eliminating this at-grade crossing will increase both the east-to-west traffic capacity for the city, emergency service response, and improve multimodal continuity along one of its most important corridors.

BNSF Right-of-way at the Reed Market Road intersection is not a consistent width. Immediately north of the intersection the BNSF right-of-way is 170 feet and narrows to 100-foot-wide approximately 600-feet north of the intersection. Immediately south of the intersection the BNSF right of way is 125-feet wide. The inconsistency in width is the result of two different now defunct railroads having tracks that existed in this area in the early 1900s. BNSF acquired by deed between 1909 and 1915 the right of way for the Oregon Trunk Railway as a 100-foot wide corridor, 50-feet on each side of and parallel with the center of the tracks. Reed Market ROW was created by Deschutes County as 60’ wide in 1926. In 1931 BNSF acquired an additional 100-foot of right of way for the Great Northern Railway lying west of and not parallel to the Oregon Trunk Railway tracks. Today only one set of tracks exist, located approximately in the location of the Great Northern Railway alignment. The Oregon Trunk railway tracks were removed; however, the right of way is still in place.

The span length and width of the structure at this intersection will depend on whether ROW – either a permanent or temporary easement – can be acquired from BNSF. BNSF has reviewed and provided feedback on an initial concept sketch. The design team is advancing the concept design alternatives described in this report while acknowledging the city will require concurrence from the railroad for the final bridge footprint.

Removing the at-grade crossing will require a structure that will impact the existing Reed Market corridor. Reed Market Road’s approaches will need to be either raised or lowered to cross over or under the BNSF right-of-way. Changing the grade of Reed Market Road’s approaches will impact the nearby intersections, including American Lane, multiple commercial driveways, SE 9th Street, and SE Quill Place. Additionally, changing the grades of Reed Market Road’s approaches will require retaining walls for the necessary grade adjustments, utility re-routing (storm, water, sewer, private utilities), and changes to pedestrian routes.

The American Lane Bridge, constructed in 2015, approaches Reed Market from the south, supported on single-span box beams. The design team has prioritized minimizing vertical impacts at the bridge that would require altering the bridge structure or major rework of the signal poles at the Reed Market/American Lane intersection. As a result, the vertical profile of the corridor for each alternative is being set to avoid impacts to the American Lane Bridge. Impacts at SE 9th and American Lane are discussed in detail for each alternative.

2.0 DESIGN CRITERIA

2.1 Roadway Design Criteria

The existing section of SE Reed Market Road from American Lane to SE 15th Street consists of a four-lane roadway section (two lanes east, one lane west), a center median, non-buffered bike lanes, concrete sidewalk on the north, concrete shared-use-path on the south, at-grade railroad crossing, and intersections with SE 9th Street to the north, and SE Quill Place to the south. The north side of the road is mainly commercial and industrial properties. The south side of the road west of the railroad crossing consists of Central Oregon Irrigation District canal and commercial properties. The east side of the rail crossing south of the road has a recent single and multi-family development with a local street intersection at SE Quill Place. The posted speed along this section of the corridor is 35mph.

The roadways are designed to meet the following standards.

- City of Bend 2024 Standards and Specifications
- City of Bend Signing and Marking Manual
- City of Bend Complete Streets Manual
- City of Bend Pedestrian Implementation Plan
- AASHTO A Policy on Geometric Design of Highways and Streets, 2018, 7th Edition
- Manual on Uniform Traffic Control Devices for Streets and Highways, 2025, 11th Edition
- Public Right of Way Accessibility Guidelines
- Oregon Fire Code, 2019

Several design deviations will be requested and are outlined below.

SE Reed Market Road

- Request to deviate from STD DWG R-1A Typical Street Cross-Sections - Arterial. Request to modify the 5 Lane Arterial - No Parking to a 4 Lane Section, maintaining travel, turn, buffer, and bike lane widths. Maintain the 8' Sidewalk/Path width but vary the 5' Planter width to 0' across the bridge.
- Request to close ADA crossings at the SE 9th Street intersection due to roadway profile over 5% and sight distance from the west. Crossings will be directed to the pedestrian tunnel or to the signalized intersection at SE American Lane.
- Request to deviate from 14-foot wide standard sewer access road for maintenance, reducing the width to 10 feet to avoid ROW acquisition from the Spider City property.

SE 9th Street

- Request to exceed maximum roadway profile of 6% to minimize impacts to existing property access.
- Request to reduce design speed to 25mph to minimize impacts to existing property access.

- Request to reduce planter widths of 2 Lane Collector - No Parking from 9' to 5' to minimize property impacts, allow for a path connection under Reed Market Rd., and minimize structural fill.
- Request to restrict left turns from SE 9th Street onto SE Reed Market due to limited intersection sight distance west.

SE Quill Place

- Request closure of the SE Quill Place intersection with SE Reed Market due to grade difference of Reed Market for new overcrossing.
- Request to maintain a gate-controlled fire access lane, 20 feet wide, from SE Reed Market Road to SE Quill Place to meet Oregon Fire Code.

2.2 Bridge Design Criteria

The new railroad overcrossing bridge, pedestrian tunnel, and retrofits to the Old American Lane bridge will be designed to comply with the following standards as applicable:

- AASHTO Guide Specifications for Seismic Bridge Design, 2nd Edition. 2011 with 2015 Interims
- AASHTO LRFD Bridge Design Specifications, 10th Edition. 2024
- Union Pacific Railroad – BNSF Railway Guidelines for Railroad Grade Separation Project
- The clear opening size of the pedestrian tunnel will be 16 feet wide by 12 feet high. The intent is to provide enough width to not feel squeezed and enough height to pass typical maintenance vehicles.

The following documents will be used as guidance but are not assigned as design criteria.

- ODOT Bridge Design Manual (BDM), October 2024
- ODOT Geotechnical Design Manual, May 2024

2.3 Railroad Design Criteria

The bridge will be designed to meet the requirements for the BNSF Railway listed in the Union Pacific Railroad – BNSF Railway Guidelines for Railroad Grade Separation Projects (The Guidelines). The BNSF Railway requirements are outlined below.

- The bridge clearance windows will be designed to accommodate one future track 20 feet to the west of the existing track.
- The bridge will accommodate two future access roads, one centered 20’-6” to the east of the existing track, and one 20’-6” to the west of the future track.
- The outside edge of access roads shall be located a minimum of 27 feet from the centerline of existing or future tracks.
- Use of MSE Walls on Railroad right-of-way, not supporting railroad embankment, require written justification and request for variance for the proposed design.

- Mechanically stabilized earth (MSE) walls will be a minimum of 50 feet from the centerline of existing or future tracks.
- A minimum 42-inch tall, cast-in-place bridge rail without any openings shall extend to the greater of either BNSF right-of-way or 25 feet from centerline of existing track. A protective fence shall be provided on the bridge rail and be a minimum of 10 feet tall.

The project team has submitted a concept railroad exhibit to BNSF with a request to allow the minimum required permanent and construction clearances outlined in The Guidelines rather than spanning the existing BNSF ROW. This exhibit also notes the use of MSE walls on the existing BNSF ROW. The design team has submitted the formal concept design submittal to BNSF and is awaiting a response.

3.0 ALTERNATIVES CONSIDERED

Four alternatives have been considered and evaluated during this analysis. The first alternative is a bridge overcrossing the BNSF railroad with a span length that provides the minimum required clearances for the existing and one future track as outlined in The Guidelines. The second alternative is a bridge overcrossing that would span the BNSF ROW immediately north of the intersection of Reed Market Road and the BNSF track. The third alternative is a bridge overcrossing that would span the BNSF ROW immediately south of the intersection. The final alternative is an undercrossing that would lower Reed Market Road below the existing and future BNSF track. These alternatives are discussed in further detail in the following sections.

3.1 Alternative 1 – Short Span (86ft)

3.1.1 Roadway/Pedestrian Considerations

3.1.1.1 Horizontal Designs

3.1.1.1.1 SE Reed Market Road

The SE Reed Market Road alignment and horizontal elements for the short span alternative generally matches the existing roadway configuration. The vertical design for the Short Span Alternative, discussed below, generally allow the American Lane intersection to remain in its current configuration.

From the American Lane intersection to the 9th Street intersection, the existing four-lane roadway section will be maintained with two 11-foot eastbound travel lanes, a 12-foot center turn lane, an 11-foot westbound travel lane, as well as buffered bike lanes (5.5-foot bike lane with 2.5-foot buffer), eastbound and westbound. 8-foot sidewalks are provided on both sides and in each direction, with planted buffer strips provided outside of the bridge area, as feasible. Figure 2 below shows this cross section. Within the bridge area, the sidewalks are curb-tight to minimize the bridge width.

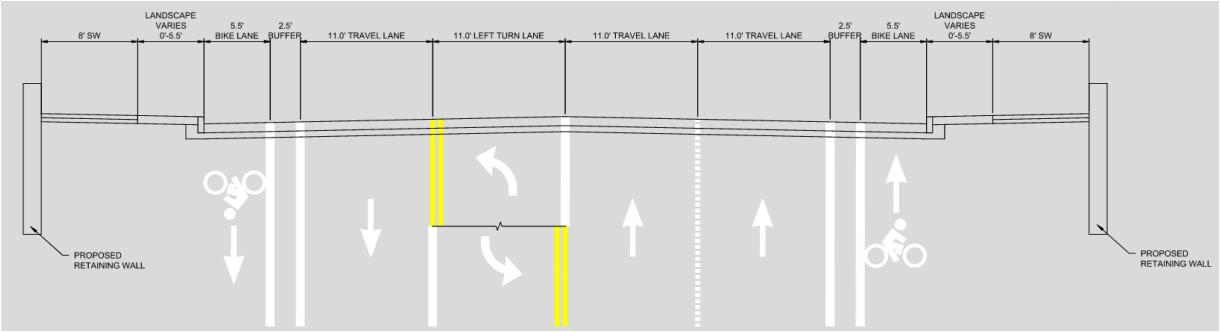


Figure 2. Reed Market Road Typical Cross Section– American to 9th Street

The 9th Street intersection is maintained, but as a movement-controlled intersection, restricting movement from SE 9th Street onto SE Reed Market Road due to intersection sight distance constraints created by the crest vertical curve of the roadway envelope. At-grade pedestrian crossings of SE Reed Market Road at this intersection are to be closed due to the profile of Reed Market Road exceeding 5% and due to safety and sight distance concerns. Pedestrians will be directed to the American Lane and 15th Street intersections for safe at-grade crossings or to a new pedestrian tunnel highlighted in teal. See Figure 3 below.

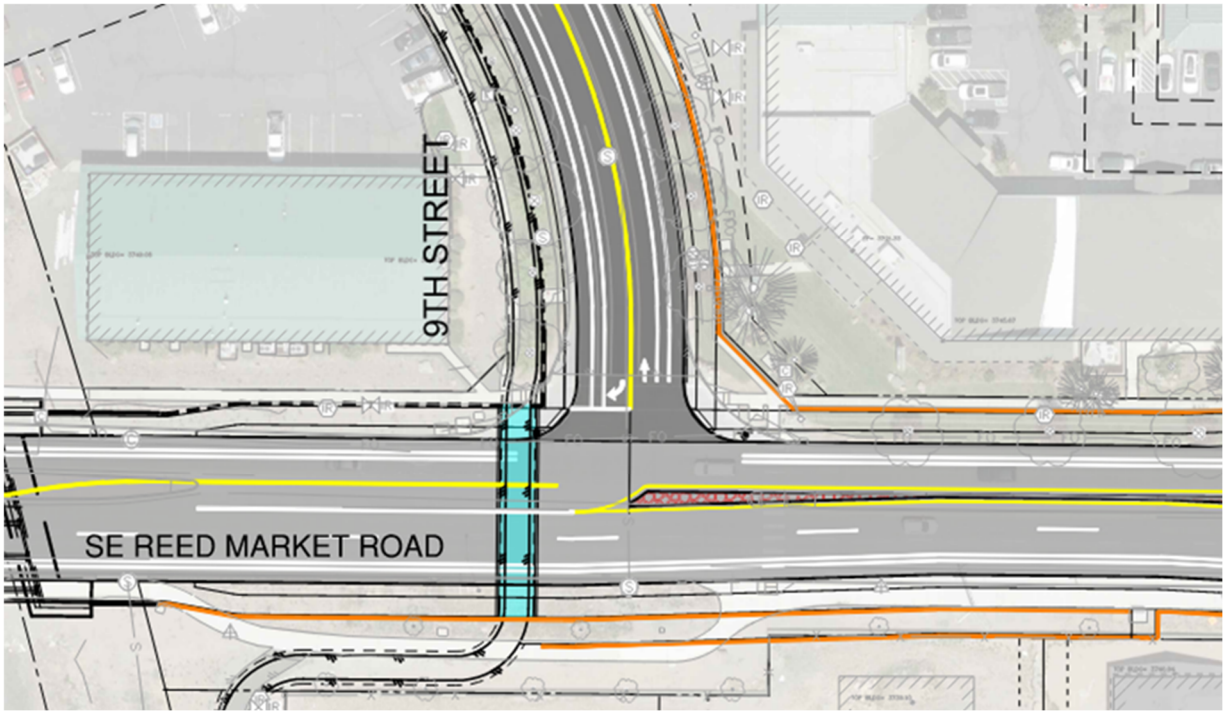


Figure 3. Intersection of SE Reed Market Road and SE 9th Street.

From the SE 9th Street intersection to the SE Quill Place intersection, the center turn lane is reduced in width due to no access points along this section of roadway, allowing the roadway to narrow. See Figure 4 below. This narrowed roadway width provides additional width to construct a shared use path ramp connection from the south Reed Market Road sidewalk to the existing

trail from the south, through the pedestrian tunnel and connect to the upcoming Bend Bikeways project on SE 9th Street.

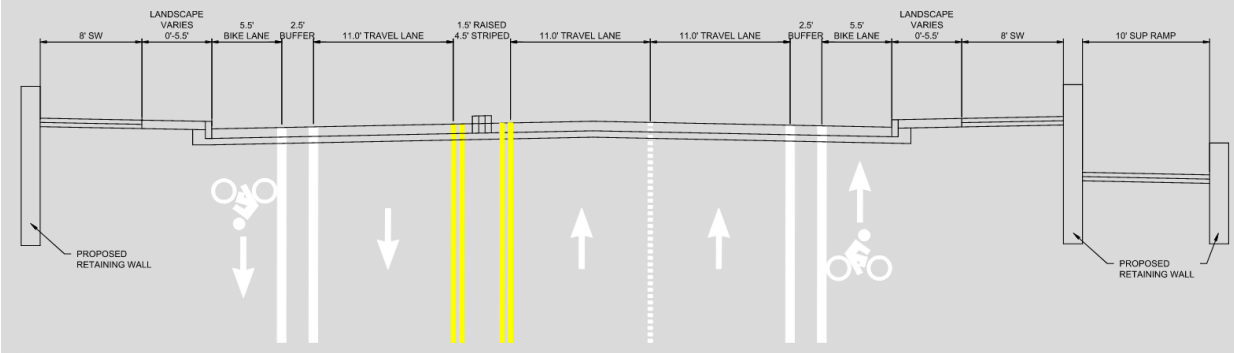


Figure 4. Reed Market Road Typical Cross Section–9th Street to Quill Place

The intersection of SE Quill Place will be closed due to the vertical grade difference of the new SE Reed Market Road, discussed below.

3.1.1.1.2 SE 9th Street

SE 9th Street will transition from the existing three-lane collector road to a "2-Lane Collector – No Parking" road section per City of Bend Standards due to the turn restriction discussed above. Additionally, to minimize required fill and to provide adequate space within the existing right of way for the trail connection from the south to the Bend Bikeways project, the standard 9-foot-wide planter strip is proposed to be 5-feet. Buffered bike lanes are provided per City of Bend Standards. A sewer access and pedestrian pathway is proposed to the west of the roadway. See Figure 5 below.

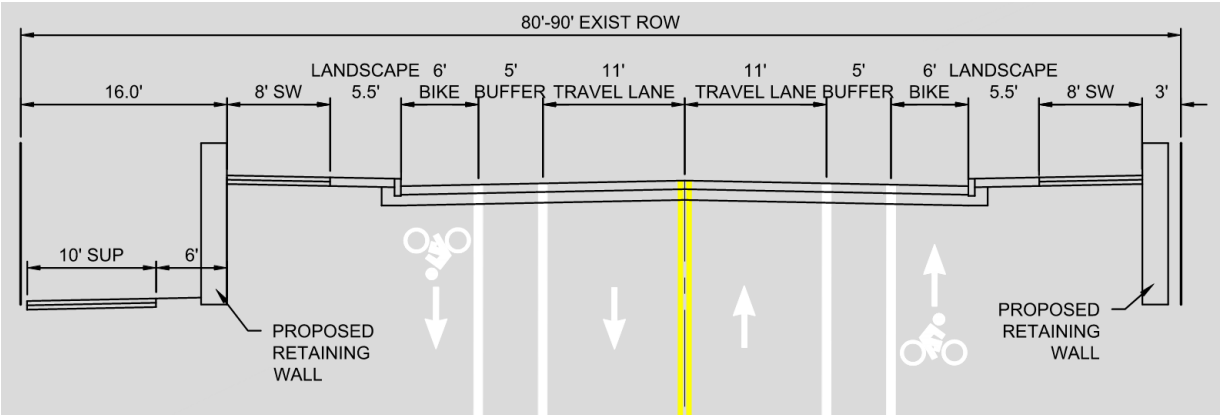


Figure 5. SE 9th Street Typical Section.

3.1.1.1.3 SE Quill Place

The intersection of SE Quill Place is proposed to be closed due to the vertical grade difference between the existing and proposed profile of SE Reed Market Road discussed below. This closure results in a dead-end on SE Quill Place with a length over 150-feet from the nearest intersection. The Oregon Fire Code requires a turn-around on all dead-ends over 150-feet. The

existing right of way and private lot developments don't allow adequate room for a turn-around meeting the Oregon Fire Code. We propose providing a 20-foot wide 10-percent driveway connection with a City Standard Fire Gate at Reed Market Road to meet the code. ADA access will be maintained from SE Quill Place to SE Reed Market Road as feasible through the construction of ramps connecting from existing SE Quill Place sidewalks and to grade with the pathways along Reed Market Road.

3.1.1.2 Vertical Design

3.1.1.2.1 SE Reed Market Road

The SE Reed Market Road vertical profile for the Short Span alternative was developed with several constraints in mind, mainly maintaining the connections with American Lane, SE 9th Street, and providing minimum clearances over BNSF rail. City Standards provide guidance for minimum roadway geometry on arterial streets with mainly minimum K values (K-sag= 49, K-crest=29), maximum roadway grade (6-percent max), and superelevation rates (e=2%) determining vertical designs. The vertical connection with the roadway near American Lane ties into a section of SE Reed Market Road that is currently superelevated. That superelevation will be matched into and carried east. Superelevation design will meet City of Bend Standards and AASHTO minimums.

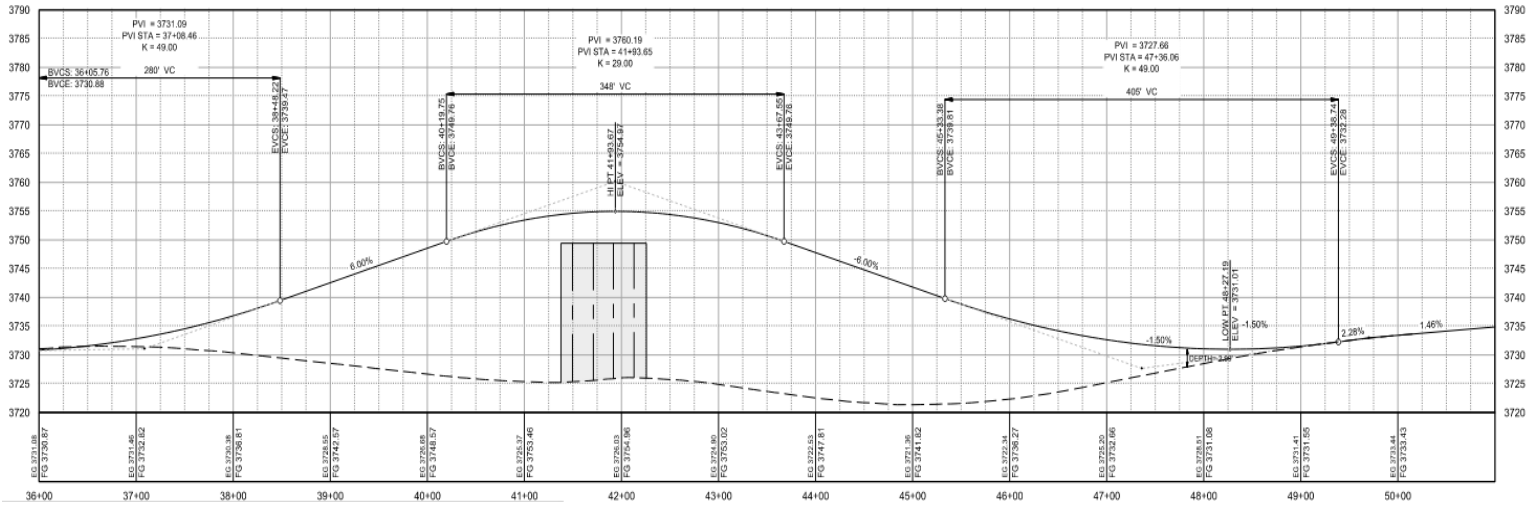


Figure 6. Short Span Profile. Grade is 6% max and Vertical Curves K=29 and K=49.

3.1.1.2.2 SE 9th Street

The SE 9th Street profile was developed with a deviation from the maximum 6-percent roadway grade to 7-percent, and reduction to K-values for 25mph. The increase in roadway grade allows for the reconnection of businesses' driveways to the north of the intersection with SE Reed Market Road as they currently exist. The roadway is shown with a superelevation in Figure 7 below. Superelevation has been removed with design progression towards 30%. 9th Street intersection is proposed as a 2% shed to better match the 6% profile of Reed Market and help with grade differences at the intersection.

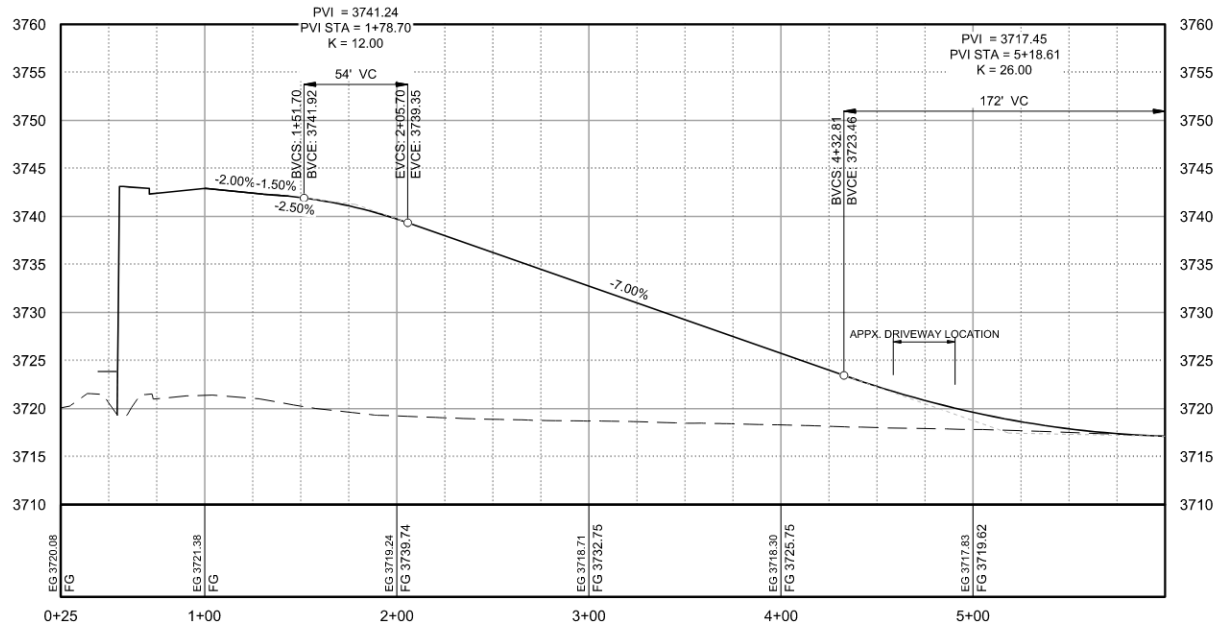


Figure 7. SE 9th Street Vertical Profile. Note Reduction in K values and 7% Grade.

3.1.1.2.3 SE Quill Place

As mentioned in the horizontal design sections above, the intersection of SE Quill Place with SE Reed Market Road is unable to connect without major impacts to the residents surrounding this street and SE Depot Loop. A driveway connecting at 10-percent from grade with SE Market Road down to SE Quill Place is the proposed solution to provide a means for fire ingress and egress. See Figure 8 below. This solution maintains existing driveway connections and will support ADA connectivity from Quill Place up to SE Reed Market Road. The ADA connection will be made within the existing ROW meandering to provide adequate length to meet ADA Guidelines.

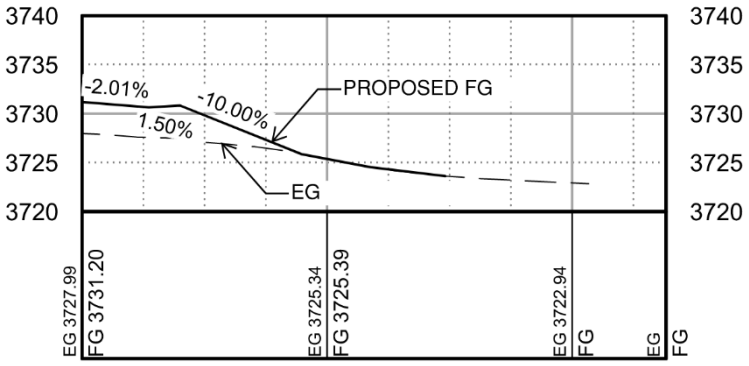


Figure 8. Quill Place Proposed Centerline Profile.

3.1.2 Bridge and Wall Considerations

The short span length alternative provides BNSF Railroad with the minimum required permanent and construction clearances as outlined in The Guidelines. Because the span length is minimized, the superstructure is shallower, which minimizes the height and length of approach walls and minimizes impacts to other project elements. The bridge has a single span that is 86-feet, measured parallel to Reed Market Road's alignment. Both steel and prestressed concrete bridge girders are being considered as options for the short span alternative. See Figure 9 below for the footprint of the short span alternative.

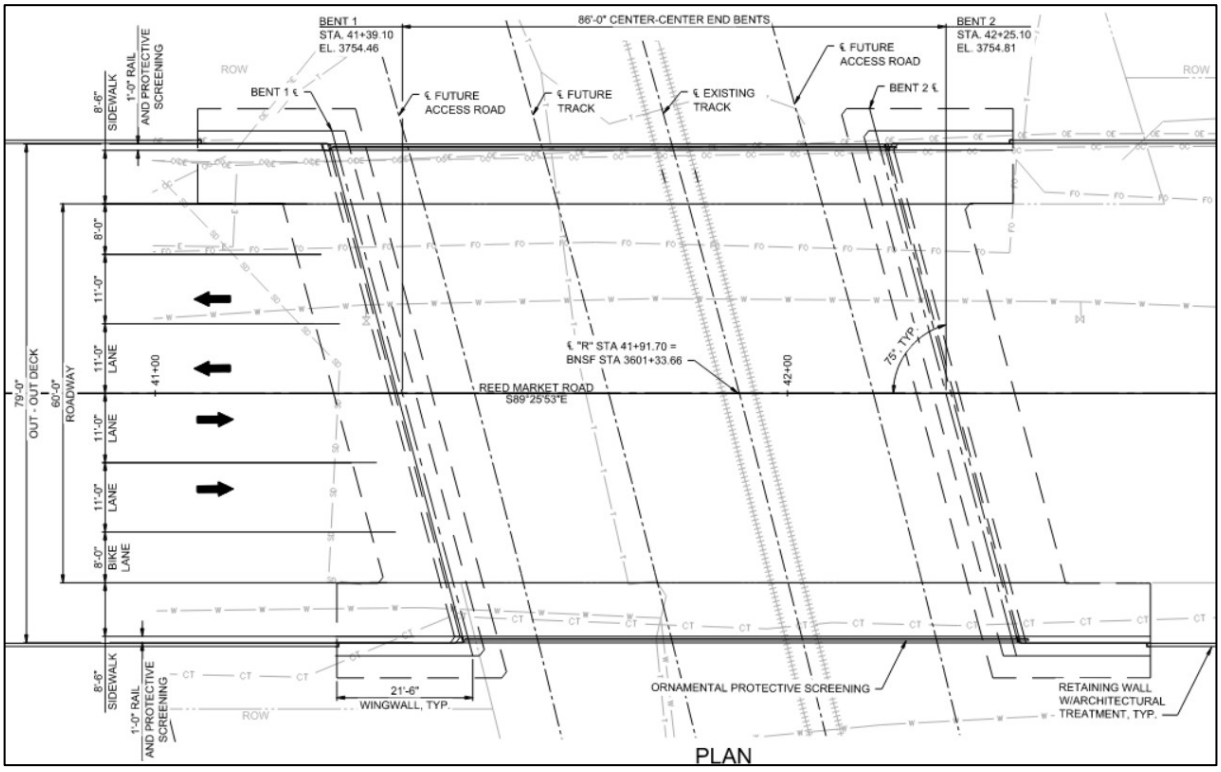


Figure 9. Short Span Footprint

It is assumed that Reed Market Road will be closed for the construction of the bridge over BNSF. This allows for the bridge to be constructed all at once rather than in stages, reducing the required amount of shoring and construction timelines.

A steel plate girder bridge with a cast-in-place deck is being considered as Alternative 1A. The superstructure depth, measured from top of deck to bottom of steel plate girder at girder centerline, is preliminarily 51.5 inches. Steel girders are practical for this alternative due to the span length and vertical crest curve, as steel girders can match the vertical curvature. Welded splices will be used to maximize efficiency in the girder design and to avoid field splices above BNSF's ROW. Two pre-compressed foam silicone joint seals are anticipated.

A side-by-side box girder bridge with an asphalt wearing surface is Alternative 1B. This alternative utilizes a waterproofing membrane between the box girders and asphalt wearing surface. The side-by-side box girders are preliminarily 42 inches deep and the asphalt wearing surface varies from 3 inches thick to about 6.5 inches thick.

The roadway/pedestrian considerations, utility considerations, stormwater considerations, and Right-of-way impacts are the same for Alternatives 1A and 1B.

Both alternatives 1A and 1B utilize the Vertical Concrete Parapet, 42 Inch bridge rail as seen on ODOT's standard drawing BR222 to meet rail height and concrete casting requirements above BNSF. Additionally, the bridge rail will support an ornamental protective screening which is a minimum of 10 feet above the adjacent sidewalk. The ornamental screening is similar in appearance to the nearby Murphy Road bridge.

The abutments are parallel and are skewed at 15° to provide the minimum required horizontal clearances while minimizing span length. Each abutment is a cast-in-place abutment supported by a spread footing. A permanent easement is required at both bents to construct the spread footings.

3.1.3 Utility Considerations

3.1.3.1 Water

The City of Bend has an existing 12-inch diameter ductile iron water main running the length of the project along SE Reed Market Rd. If left in place, the proposed embankment for the overcrossing would leave the existing main inaccessible and unmaintainable at depths greater than 30 feet below finish grade. Because of the depth, this main is proposed to be replaced in kind with the alignment generally following the lane line 11 feet north of the road's centerline. At the east end of the project, 45°bends are proposed to connect to the existing main under the north sidewalk, allowing the new alignment to meet current standards for as much of the project length as possible.

The water main profile is proposed to follow the standard three-foot depth below the proposed road surface. At the railroad crossing, the new main will be suspended below the bridge deck between the steel girders. For the prestressed box beam girder option, the water main will be suspended under the bridge rail beyond the last box beam girder with 45°bends used to shift the alignment. Butterfly valves, automatic air release valves, and expansion joints are proposed on either side of the bridge to allow isolation of the crossing, prevent airlock, and provide seismic protection for the critical crossing.

All the City's water infrastructure within the project limits, and the surrounding area, are in Pressure Zone 4B. With existing system looping, and all mains in the same pressure zone, the existing water main can be isolated and removed from service prior to embankment construction for the overcrossing. This eliminates the need to either use a temporary bypass across the railroad tracks or maintain the existing main during construction and abandon-in-place after the new main is put in service.

Domestic water service within the project limits is split between two providers, the City of Bend and Avion. Most of the project limits are within Avion's water service area. The only existing services from City of Bend mains are along SE 9th St and on the north side of SE Reed Market Rd east of SE 9th St. The services along SE Reed Market Rd will be reconnected to the new main. See the SE 9th St discussion below for service reconnections.

At American Lane, an existing 12-inch diameter ductile iron water main extends south from SE Reed Market Rd across the existing bridge. This water main will be reconnected to the

proposed water improvements. Impacts to the existing American Lane bridge are not anticipated for water main construction.

Along SE 9th St, the City of Bend has an existing 12-inch diameter ductile iron water main running north from Reed Market Rd. Similar to the proposed embankment on SE Reed Market Rd, the embankment on SE 9th St will require reconstruction of the water main to keep the facility at a standard depth that is serviceable and maintainable. The proposed alignment will follow the road centerline offset 11 feet to the west which closely aligns with the existing water main near the connection point at the northern project limit. The profile will be generally 3 feet below the proposed finish grade surface.

There are several existing fire hydrants, laterals, and services along SE 9th St. The existing hydrants in the northwest and northeast corners of the SE 9th St intersection will require relocation as the proposed retaining walls will make the current locations inaccessible to fire trucks. These hydrants can either be raised to finish grade (at the top of the retaining walls) or moved approximately 300 feet north to the first set of commercial driveways. This will require Fire Department coordination and a design exception to the standard 400-foot hydrant spacing.

Also in the northeast corner of the SE 9th St intersection is the existing fire department connection (FDC) to 1310 SE Reed Market Rd. The proposed retaining walls will make the existing location inaccessible for fire trucks requiring relocation of the existing FDC. A temporary construction easement and plumbing on private property will be necessary to relocate the FDC. Additional investigation and coordination with the property owner is necessary to determine if the FDC should be relocated to the north of the existing location, or east to the opposite side of the building.

The existing laterals to the business parks at the commercial driveways approximately 300 feet north of the SE Reed Market Rd can be reconnected near ROW from the new main.

East of the railroad tracks, Avion's facilities generally consist of 8-inch diameter mains with individual services constructed with the Luderman Crossing subdivision in 2020. From the subdivision, an existing 10-inch diameter main crosses the railroad tracks to the west and serves as the sole feed for over 100 domestic services on American Lane and SE Paiute Way. The American Lane main crosses the canal attached to the Old American Lane bridge.

A preliminary coordination meeting was held with Avion on April 22, 2025, to discuss existing facilities and potential relocation concepts. Avion was in agreement that the relocated water main should be reconstructed with the road embankment and offset south of the road centerline, essentially mirroring the City's water main north of centerline. Due to the single feed for the services west of the railroad tracks, a temporary connection to the City of Bend water will be necessary to maintain service during construction.

Avion has stated they have existing easements in place for the facilities in conflict, making their relocation reimbursable. Avion has provided documentation of multiple easements which will require review by City of Bend Legal; for the purposes of this report, Avion relocations are considered reimbursable. Avion expressed interest in relinquishing their water service area west of the bridge. The feasibility of water service area transfer would require input from City of Bend Legal but given the cost of relocation and need for a temporary connection to maintain water service during, this may be a more cost-effective solution and would eliminate the need for Avion to cross the BNSF railroad tracks.

3.1.3.2 Sewer

The City of Bend has an existing 8-inch diameter gravity sewer main that runs south to north and crosses Reed Market Rd at SE 9th St. From the Reed Market and SE 9th St intersection, an existing abandoned main extends approximately 850 feet to the east. The City of Bend Sewer Department confirmed (email from Justin Young dated April 21, 2025) this main is abandoned east of SE 9th St and can be removed during construction.

To maintain accessibility, the gravity sewer main will be relocated to align with the proposed pedestrian tunnel on the west side of the SE 9th St intersection. Along SE 9th, the sewer alignment will follow an approximate 8-foot offset from the west ROW boundary. This will center the sewer between the ROW boundary and the retaining wall allowing manhole depths to closely follow existing, rather than increasing structure height to meet the elevated road profile. A paved path will be placed over the sewer to serve as both a pedestrian path to the tunnel as well as the service road for sewer maintenance. Limited ROW will prevent the installation of a standard turnaround, meaning maintenance vehicles will have to back out. If BNSF will allow the gravel access road to extend over the sewer easement, within BNSF ROW, maintenance vehicles will be able to make a multi-point turn to turn around; BNSF coordination is required to determine if this is feasible.

3.1.3.3 Franchise Utilities - Power

Both Pacific Power & Light (PP&L) and Central Electric Cooperative (CEC) have power infrastructure along the corridor. PP&L has aerial facilities along Reed Market Rd and SE 9th St. In preliminary conversations, PP&L will explore both overhead and underground relocations with underground anticipated to be the preferred option due to the height required above the bridge to meet overhead clearances. Moving the existing infrastructure underground would require multiple 6-inch diameter conduits with 7-foot by 12-foot pull vaults placed every 700 to 800 feet. These large vaults will require special consideration with the roadway design as there is limited space within the proposed typical section. In addition to the pull vaults, transformer and switch gear vaults may be required at either end. PP&L may also consider self-supporting steel poles at terminal locations where overhead facilities will drop to underground. Both steel poles and switch gear have lead times up to 12 months, all other required gear and materials have shorter lead times. To keep long lead items off the critical path for construction, the power relocation plan needs to be set at least one year prior to the start of construction. The power relocations also need to be considered in the construction sequencing plan as the existing conductors cannot be deenergized for extended periods. All required power relocations are understood to be non-reimbursable.

3.1.3.4 Franchise Utilities - Communications

TDS, Lumen, LS Network (LSN), BendTel, Fatbeam, and Zayo all have existing facilities within the project limits. Several communications franchisees currently cross the BNSF railroad overhead on joint-use poles and will follow the power relocation plan with either new overhead or underground facilities. Those that do not currently cross the railroad have all expressed interest in adding conduits to the bridge for future use. Any new facility would be considered an improvement with the cost of installation being the responsibility of the respective franchisee. Each franchisee will be required to obtain a license agreement with BNSF to have infrastructure within the railroad ROW. To avoid the scheduling challenges of aligning BNSF approvals for each franchisee with the construction schedule, the conduits can be constructed with the project

by the City's contractor with ownership transfer occurring after construction. Additional costs can be determined and passed on to the franchisees protecting the project budget. All required communications relocations are understood to be non-reimbursable.

3.1.3.5 Franchise Utilities - Natural Gas

Cascade Natural Gas (CNG) owns and operates existing natural gas distribution facilities on both sides of the BNSF ROW but does not have an existing railroad crossing at Reed Market Rd. Within the project limits, all natural gas infrastructure is understood to be low-pressure with pipe sizes up to 2 inches in diameter. Relocation of these types of facilities are common and do not require excessive leads times. Similar to the communications facilities, CNG has also expressed interest in extending new infrastructure across the proposed bridge. All required natural gas relocations are understood to be non-reimbursable.

3.1.4 Stormwater Considerations

Both short span alternatives share the same horizontal and vertical geometry and will consist of the construction of a new concrete (SE Reed Market Road) or asphalt (SE 9th Street) roadway section bounded by new concrete curbs, landscaped planter strips, and concrete sidewalk/shared-use-paths. The roadway will generally be a normal 2% crown, except for the existing and proposed reconstructed superelevation at American Lane. 9th Street intersection is proposed as a 2% shed to better match the profile of Reed Market.

There is inadequate space available for surface infiltration facilities without major impacts to ROW and structures. The COID irrigation canal running parallel to SE Reed Market Road west of the proposed overcrossing further constrains stormwater disposal options. For these reasons, we propose collecting the stormwater and piping it out of the fill areas to native areas. Disposal will be through a series of drywells and treatment will be mechanical. The proposed fills required for the bridge approaches do not allow for drywell disposal within these areas due to excessive depths required for perforated barrel sections to be located in native soil.

Where possible, existing drywells are proposed to be reused.

Shannon and Wilson completed three infiltration test pits along the corridor which were used to measure the infiltration capacity of the surface soils. Measurements ranged from 1.44 inches/hour to 2.88 inches/hour. Subsurface infiltration is the recommended means of stormwater disposal, and further testing during construction should be performed to verify the capacity of the native soils and bedrock.

3.1.5 Right-of-way and Railroad Impacts

Alternative 1 was analyzed for its impacts on existing right-of-way , ROW acquisition needs, and existing structures affected by the construction of improvements. West of the BNSF crossing, existing ROW widths vary from 90 feet to approximately 125 feet from American Lane to Old American Lane and are a standard 100-foot width east of the Old American Lane Bridge. East of the BNSF crossing, ROW widths are non-standard, measuring 125 feet up to the east side of 9th Street. East of 9th Street, ROW widths return to the standard 100 feet. A small (~65ft^2) ROW acquisition will be required for the pedestrian ramp on the south side of the roadway. Negotiations with the homeowner’s association to reconstruct the asphalt pathway and

reconnect the southern asphalt path to the new tunnel may be required if this work is not included in the City's easement.

The largest property impact is on the parcel located at 1110 SE Reed Market Road. Due to the grade separation, there is no feasible way to connect the property back to SE Reed Market Road, which currently serves as its only connection. The City will purchase this property and relocate the businesses with the intent to evaluate alternative points of access for future redevelopment.

The short span alternative will require the purchase or dedication of ROW or permanent easements from BNSF to construct and maintain the bridge footings within their current ROW limits. The project team has requested variance to allow for the footings to be constructed within their current ROW limits if the minimum permanent and construction clearances from The Guidelines are provided. The excavation and construction of the spread footing foundations will require shoring in accordance with The Guidelines, as shown in the Railroad Exhibit.

3.2 Alternative 2 – Medium Span (142ft)

3.2.1 Roadway/Pedestrian Considerations

3.2.1.1 Horizontal Designs

3.2.1.1.1 SE Reed Market Road

The SE Reed Market Road configuration and horizontal elements are similar to the existing roadway configuration; however, an additional westbound lane is added due to the removal of the at-grade crossing with BNSF and closure of the 9th Street connection. The vertical designs, discussed below, generally allow the American Lane intersection to remain in its current configuration.

From the American Lane intersection to the intersection with SE Quill Place, the existing four-lane roadway section of SE Reed Market will be maintained with two 11-foot eastbound travel lanes, two 11-foot westbound travel lanes, bike lanes in each direction (5.5-foot bike lane, 2.5-foot buffer), 8-foot sidewalks in each direction with buffers/landscape strips provided outside of the bridge footprint. Within the bridge area, sidewalks meander curb-tight to minimize the bridge width. See Figure 10 below.

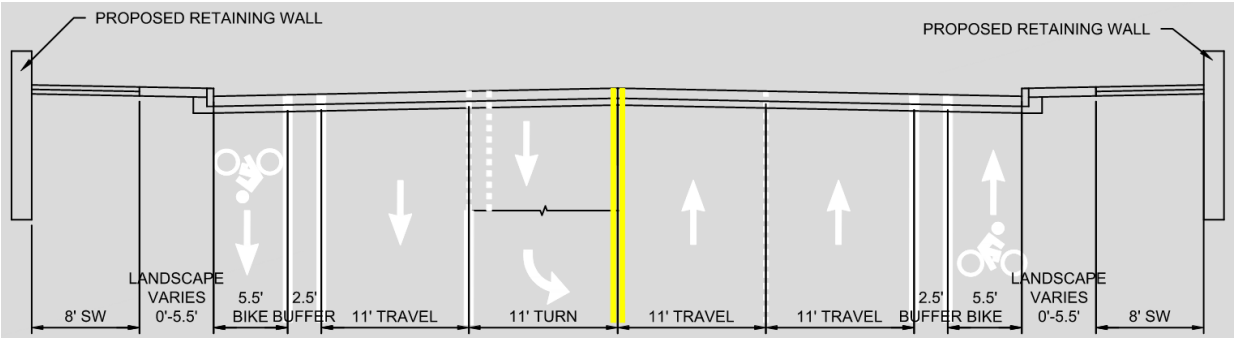


Figure 10. SE Reed Market Road Cross Section West of Quill Place.

From the intersection of SE Reed Market Road with SE Quill Place, the section widens in the landscape buffers to maximize the full right of way width. The lane configuration from the previous section is maintained. See Figure 11 below.

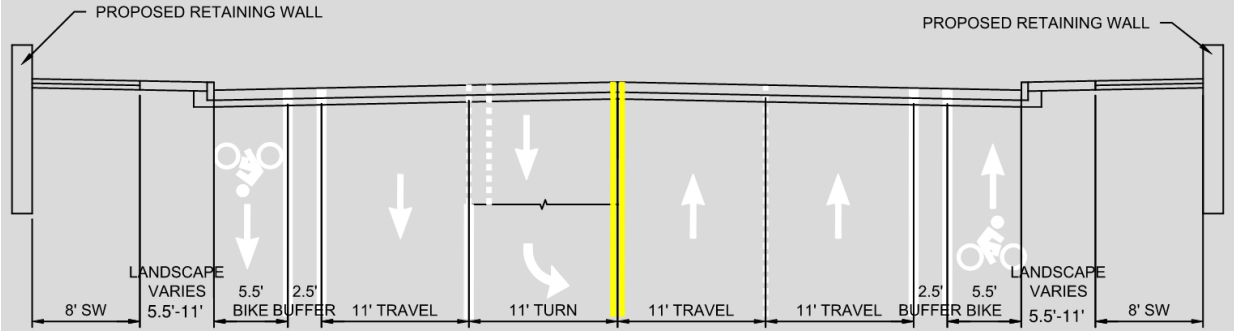


Figure 11. SE Reed Market Road Cross Section East of Quill Place.

3.2.1.1.2 SE 9th Street

SE 9th Street will be closed with the medium span option due mainly to the grade difference at the intersection with SE Reed Market Road and its impact to adjacent properties. A dead-end cul-de-sac is proposed near the new end of SE 9th Street. See Figure 12 below.

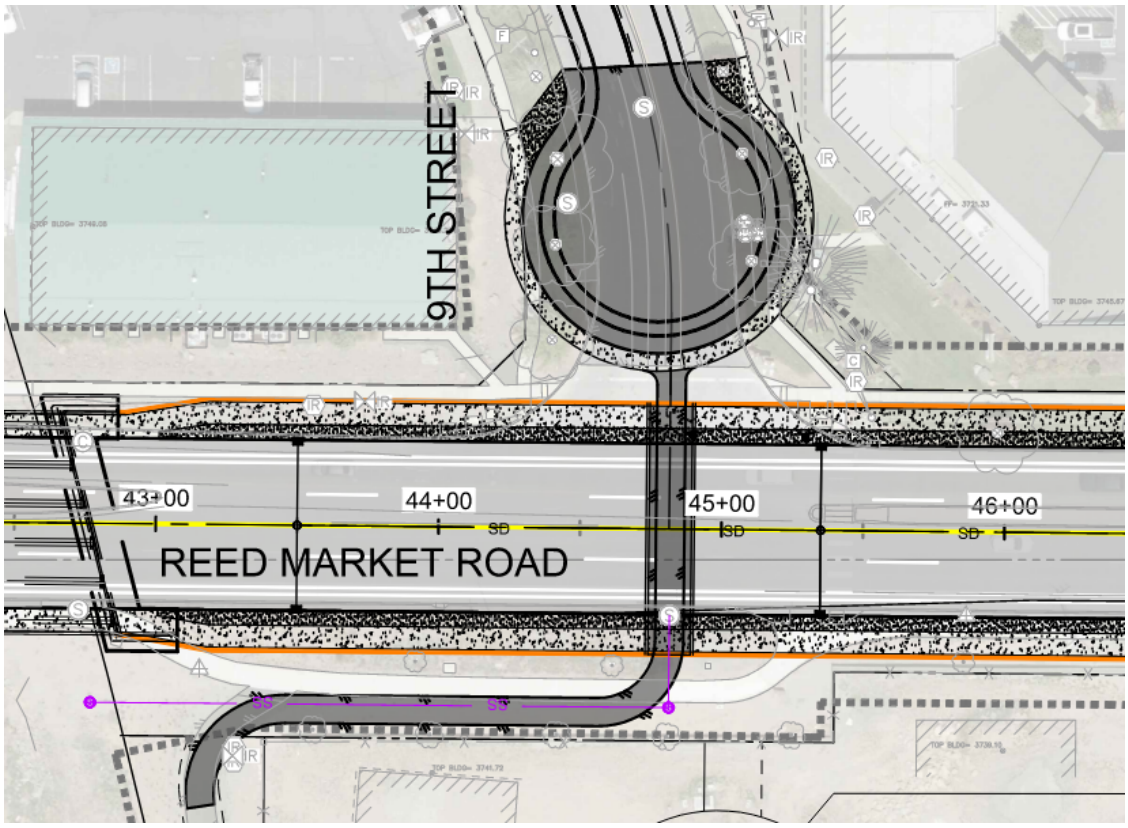


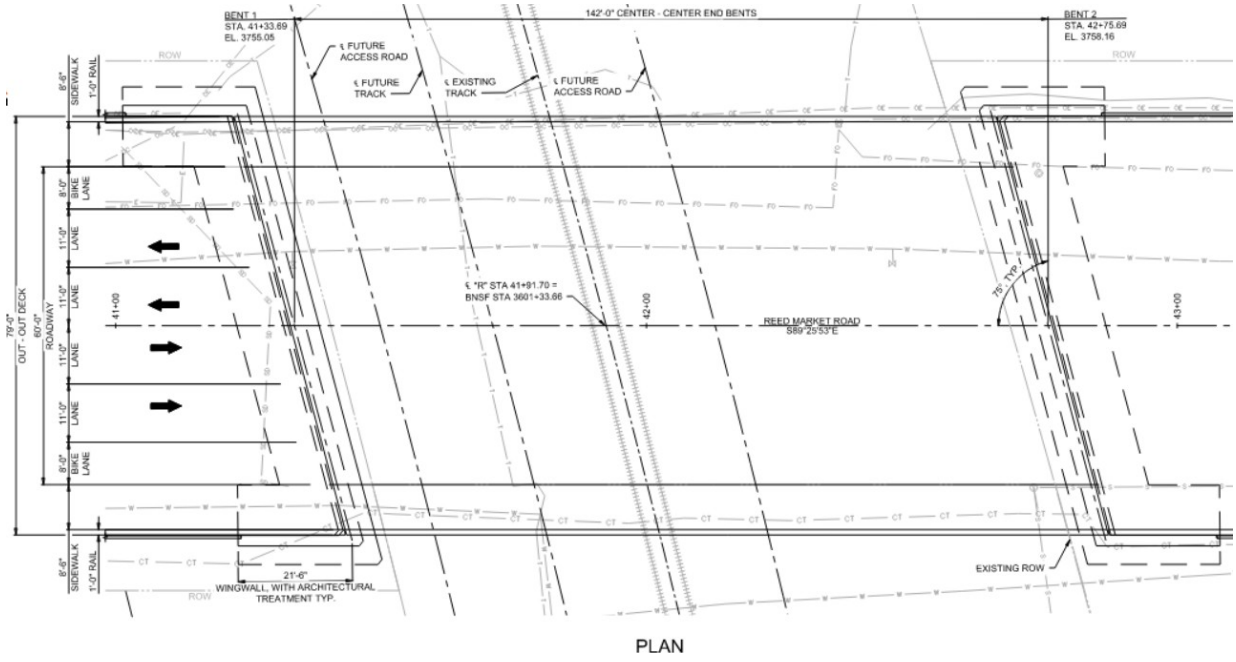
Figure 12. Proposed Intersection of SE Reed Market Road and 9th Street.

3.2.1.1.3 SE Quill Place

The impacts to SE Quill Place are the same for Alternatives 1 and 2. See Section 3.1.1.1.3.

3.2.2 Bridge and Wall Considerations

This alternative spans BNSF's ROW immediately north of the intersection of Reed Market Road and BNSF's existing track. The longer span requires a deeper superstructure which adds to the required length and height of the approach walls and increases impacts on other disciplines. See Figure 13 below for a footprint of this alternative.



PLAN

Figure 13. Alternative 2 Footprint

It is assumed that Reed Market Road will be closed for the construction of the bridge over BNSF. This allows for the bridge to be constructed at once rather than in stages, reducing the amount of required shoring and reducing construction timelines.

The bridge utilizes a steel plate girder bridge with a cast-in-place deck and a single span length of 142 feet, measured parallel to Reed Market Road's alignment. The superstructure depth, measured from top of deck to bottom of steel plate girder at girder centerline, is approximately 69.75 inches. Steel girders are practical for this alternative due to the span length and vertical crest curve, as steel girders can match the vertical curvature. Welded splices are used to maximize girder efficiency and to avoid a field splice over the BNSF ROW. This alternative utilizes the Vertical Concrete Parapet, 42 Inch bridge rail as seen on ODOT's standard drawing BR222. Additionally, the bridge rail supports an ornamental protective screening which is a minimum of 10 feet above the adjacent sidewalk. The ornamental screening is similar in appearance to the nearby Murphy Road bridge. Two pre-compressed foam silicone joint seals are anticipated.

The abutments are parallel and are skewed at 15° to provide the minimum required horizontal clearances while minimizing span length. Each abutment is a cast-in-place abutment supported by a spread footing. A permanent easement is only required to construct one of the spread footings where the footing is on existing BNSF ROW immediately north of the intersection.

3.2.3 Utility Considerations

Utility considerations for Alternative 2 are generally the same as Alternative 1 as described in Section 3.1.3 above. By not connecting SE 9th St to Reed Market Rd, vertical bends will be necessary to connect the water main by installing it under the north retaining wall footing at SE 9th St. Installation of a water main under a retaining wall footing is not ideal; however, other options to maintain the SE 9th St water connection required significant rerouting and right of way purchase. To protect both the water main and the retaining wall, the water main should be installed through a steel casing buried a minimum of 5 feet below the bottom of retaining wall footing. The SE 9th St dead end area will also provide additional room for a sewer turnaround and franchise utility infrastructure such as power vaults.

3.2.4 Stormwater Considerations

The medium span geometry shares similar horizontal geometry to the short alternatives besides the lack of connection to 9th Street. It will consist of the construction of a new concrete roadway section bounded by new concrete curbs, landscaped planter strips, and concrete sidewalk/shared-use-paths. The roadway will generally be a normal 2% crown, except for the existing and proposed reconstructed superelevation at American Lane. There will also be a need to dispose of stormwater in the newly constructed cul-de-sac, however the lack of connection creates more options for surface stormwater disposal along 9th Street.

Where possible existing drywells are proposed to be reused. The proposed fills created for the bridge approaches do not allow for drywell disposal within these areas. Additionally, right of way constraints on either end make surface infiltration difficult by the minimized footprints available. The COID irrigation canal running parallel to SE Reed Market Road west of the proposed overcrossing further constrains stormwater disposal options. For these reasons, we propose collecting the stormwater and piping it out of the fill areas to native areas. Disposal will be through a series of drywells and treatment will be mechanical.

Shannon and Wilson completed three infiltration test pits along the corridor which were used to measure the infiltration capacity of the surface soils. Measurements ranged from 1.44 inches/hour to 2.88 inches/hour. Subsurface infiltration is the recommended means of stormwater disposal, and further testing during construction should be performed to verify the capacity of the native soils and bedrock.

3.2.5 Right-of-way and Railroad Impacts

Alternative 2 was analyzed for its impacts on existing ROW, ROW acquisition needs, and existing structures affected by the construction of improvements. West of the BNSF crossing, existing ROW widths vary from 90 feet to approximately 125 feet from American Lane to Old American Lane, and are a standard 100-foot width east of the Old American Lane Bridge. East of the BNSF crossing, ROW widths are non-standard, measuring 125 feet up to the east side of 9th Street. East of 9th Street, ROW widths return to the standard 100 feet. No ROW acquisition is anticipated along this section of Reed Market Road, although pedestrian access easements

for the Quill Place connection and the reconnection of the southern asphalt path to the new tunnel are expected. It is anticipated that along 9th Street approximately 1,000 square feet of ROW will need to be acquired for the construction of the new cul-de-sac.

Alternative 2 will require the purchase or dedication of ROW or a permanent easement from BNSF to construct and maintain one of the bridge footings within their current ROW limits. This alternative does span BNSF's ROW to the north of the intersection. Written justification and request for variance would need to be approved by BNSF should this alternative be selected. The project team believes that this alternative meets the intent of section 5.2.2.b-1 of The Guidelines as it would be impractical to span the BNSF ROW to the south of the intersection.

3.3 Alternative 3 – Longest Span

This alternative was considered but not advanced because of the impractical span length. To span BNSF's ROW immediately south of the intersection, the following impacts would be made to the project:

- At this length with a crest vertical curve, a prestressed girder alternative has about 10 inches of concrete buildup at midspan, making it not a viable alternative.
- A steel plate girder alternative requires a superstructure depth of about 96 inches.
- The superstructure depth causes the vertical profile of the bridge to be raised, which adds considerable earthwork to the project, raises nearby walls, and would require the nearby intersection with 9th Street to be closed, similar to Alternative 2.
- This superstructure depth would cause the nearby American Lane Bridge over the Central Oregon Irrigation District Canal, which was built in 2014, to be raised or reconstructed.
- Spanning BNSF ROW to the north of the intersection would give a larger opening for the railroad than the other alternatives, but this would have no effective benefit as there is a ROW bottleneck for BNSF approximately 700 feet to the north and immediately south of the intersection.
- This alternative would require a water mainline under a retaining wall footing, which would add cost and complexity to construction and maintenance.
- BNSF requirements do not allow for field splicing of girders above their ROW. This would require girders to be spliced on the land and picked into place, which would add risk and require much larger cranes and other equipment at this span length.

3.4 Alternative 4 – Undercrossing

This alternative would lower Reed Market Road under the existing and future BNSF rail lines. A new bridge carrying the BNSF facilities would be constructed. It was not advanced for multiple reasons:

- A shoofly or new alignment would be required for the existing rail line to allow for excavation of the roadway.
- The rail line crosses the COID Canal approximately 1000 feet south of Reed Market Road which would require a new railroad bridge at that location for the shoofly or new alignment.

- The maximum excavation depth would be approximately 24 feet, 10 to 20 feet of which would be into bedrock.
- The retaining walls required along Reed Market Road on the approach to the crossing would need to be cantilevered soldier pile type, which are costly to construct, especially when the piles are founded in bedrock.
- The sag vertical curve alignment of the roadway would create a “bathtub” at the crossing much like what currently exists at the railroad crossing at NE Franklin Boulevard in Bend. To mitigate the drainage issue, an expensive pressurized pump system with extensive maintenance requirements could be required.
- The proximity of the COID Canal may be an issue for seepage from the canal into the roadway cut.

4.0 ADDITIONAL CONSIDERATIONS

4.1 9th Street Connection Alternatives

SE 9th Street is a minor arterial serving from its intersection with SE Reed Market Road and north to near Bend Senior High School where it continues as NE 8th Street. Between the three roadway alternatives, two alternatives were considered for the connection to SE 9th Street. Both alternatives 1A and 1B share the same general design for a new embankment supported by walls and right-in, right-out, and left-in access to 9th Street. Reed Market Road connects with reasonable reduction to crest and sag K values for 25mph, and a deviation from standards to a roadway slope of 7%. This alternative maintains the driveways on the east and west sides of 9th Street without major impacts to the existing grades into these businesses.

Alternative 2 was analyzed for connection to 9th Street with the same horizontal geometry; however it was found that the grade difference was too extreme to reasonably and safely connect the two. This connection would require reduction to K values far below what the City will allow at stop-controlled intersections, have required a 12% roadway slope to connect within the API along with approval from City of Bend Emergency Services, or require an increase of approximately 125-feet to the API, further impacting businesses along SE 9th Street.

With grades for all three roadway alternatives exceeding PROWAG maximum 5% cross slope for ADA crosswalks on SE Reed Market Road at the connection into 9th Street, it was identified that all options would need to include a pedestrian tunnel to maintain current levels of access for all users of the corridor. Deletion of the crossing is still supported as there are no pedestrian generators between this intersection and safer options for crossing. For the medium span, a ramp to move users from the south side of the proposed walls along Reed Market to the top of the new embankment was explored, but due to the grade difference, it would require 500 plus feet of ramps to reach the top of the new sidewalks. For the Short Span option the ramp option was also explored and found to be viable if designed to run from the tunnel to near the intersection of SE Quill Place. The reduction in center turn lane widths and ability to taper the sidewalk with the curb allows the ability to construct the ramp with minimal right of way impacts.

4.2 Quill Place Connection

The current intersection of Quill Place and Reed Market Road is proposed to be closed with any of the four options. This is due to grade differences that would require vertical geometry to

exceed minimum City standards and negative impacts to adjacent properties. To bring this to standards would likely require vertical changes to SE Depot Loop, creating major impacts to current residents along these two local streets. There is opportunity to reconnect the sidewalks to the southern side of Reed Market to serve as a pedestrian connection for nearby residents. This closure will require residents to use the two existing entrances/exits to the neighborhood along 15th Street.

With the end of roadway exceeding 150-feet to the intersection with Depot Loop, a fire turnaround or hammerhead will be required. The existing narrow ROW will not allow for either of these options, so a driveway from Reed Market Road to Quill Place with a locking fire gate is proposed.

4.3 American Lane Connection

American Lane is a critical connection for the residents of southeast Bend. With both alternatives, one of the main criteria during design was to maintain this connection to SE Reed Market Road. Both options maintain this connection by slightly modifying the vertical just north of the bridge expansion joint, allowing the existing vertical geometry of the bridge to be maintained. With both options, the eastern signal pole will need to be raised and slightly relocated.

4.4 Retaining Wall Alternatives

The raising of Reed Market Road east and west of BNSF is necessary to connect to the proposed grade-separation structure. To prevent the new fill from extending beyond the existing ROW limits, retaining walls will be used on both the north and south side of Reed Market Road. These walls will be over 25 feet high at the bridge abutments.

There will also be a small wall on the south side of the ramp carrying the path running east from the pedestrian tunnel up to Reed Market Road.

Mechanically stabilized earth walls are the most cost-effective type for these heights. They will also be consistent with the walls used at the recently completed Murphy Road grade separation project in design and architectural treatment.

4.5 Bridge Rail, Guard Rail and Pedestrian Rail

The railing for this bridge project is the ODOT Standard Drawing BR222, Vertical Concrete Parapet, 42 Inch. The rail is a concrete parapet. Since the design speeds do not exceed 40 mph, a traffic separating rail is not required to protect pedestrian users. Sidewalks for pedestrian use will be a minimum of 7 inches above the bridge deck to protect them from vehicular traffic. The project does have a specified bikeway, so it can be assumed that cyclists will not use the sidewalk. Therefore, the 42-inch rail height is adequate to ensure both pedestrian and cyclist safety. This rail choice is appropriate because it meets the design requirements for pedestrian rails, which restrict the size of any opening to protect users, particularly children. Using a three-tube rail, typical around the area, does not provide the pedestrian protection warranted and is not permitted by BNSF. The BR216 rail has been crashed tested to an evaluated Test Level of 4 (TL-4) according to ODOT BDM 1.13.1.3. and 1.13.1.6. This can be modified to easily facilitate any form liner aesthetics chosen for the project.

In areas over railroad operations, as required by BNSF, protective fencing will be mounted to the top face of the rail as depicted by ODOT Standard Drawing BR240, Type “B”. The fencing will reach a minimum height of 10 feet above the top of the adjacent sidewalk.

The approach MSE Walls will be topped with BR222 Vertical Concrete Parapet, 42 Inch bridge rail supported by moment slabs. Protective fencing is not required on the bridge rail above the MSE Walls.

Once off the bridge and MSE Approach Walls, moving east and west, the rail system transitions to guardrail. On both sides of the bridge, the parapet rail will continue along the outside edge of the sidewalks and be topped with fencing as necessary, similar to BR240. This rail will serve as fall protection for all users and reduce the amount of light pollution from traffic headed easterly and westerly.

4.6 Aesthetic Considerations

The goal of the project is to match the appeal and aesthetic of other corridors and structures in the City (notably the recently completed Murphy Road overcrossing located approximately 1 mile to the South). Aesthetic treatments will be coordinated between the roadway features, such as medians, roundabouts, and landscaping and between structures, such as retaining walls, railings, and abutments.

Roadway Considerations

Roadside landscaping will be used to improve the aesthetic appearance of the corridor. Each of the alternative typical sections includes a planter strip between curb and sidewalk ranging from 5 to 11 feet. Shrubs, bushes, street trees, and other landscape features will be considered during design. Where retaining walls are present, planter strip landscaping will be limited to native seeding that requires little to no irrigation to minimize the risk of compromising the structural integrity of the adjacent wall and MSE straps caused by invasive roots or leaking irrigation.

Bridge and Pedestrian Rail Considerations

Efforts will be made to incorporate form liners and molds similar to how other bridges and structures around the city are enhanced. Protective fences will be powder-coated to match other protective fences found throughout the city and surrounding areas. The bridge will incorporate several aesthetic features including form liner patterns on the bridge rails and abutments, and facing the MSE retaining walls with appealing designs, similar to the nearby Murphy Road over BNSF bridge. The use of colored concrete or stains will be considered for all exposed concrete surfaces.

Retaining Wall Considerations

Large MSE retaining walls will be faced with precast concrete paneling to increase their aesthetic value and match other MSE walls throughout the city. The wall panels use concrete form liners during casting to provide an architectural finish. A solid coping supporting the pedestrian rail will be placed at the top of the MSE walls.

Lighting

Lighting is required by BNSF railroad to illuminate areas in the shadow of the proposed bridge. We anticipate providing overhead lighting and conduits supported by the bridge superstructure near each abutment to meet BNSF standards. The city only requires street lighting at intersections; therefore continuous street lighting will not be installed along the new roadway or bridge. Pedestrian lighting on the bridge, similar to Murphy Road, and in the pedestrian tunnel will be provided.

4.7 Transportation Evaluation

The design team was tasked to perform a transportation analysis to evaluate roadway connection alternatives within the study area, specifically focused on the effects of the possible roadway closures along Reed Market Road. The current and future intersection operation, level of service and pedestrian and bicycle travel were evaluated. The Transportation Analysis Memo summarizes information on existing intersections along the corridor that may be changed and/or closed as part of the new crossing construction and how those changes may affect the travel choices made by people driving, riding bikes, taking transit and walking along and to/from the corridor.

As presented, the various closure scenarios evaluated were found to result in similar vehicular operational needs and multimodal conditions at the study intersections. However, potential turn restrictions at the SE 9th Street/SE Reed Market Road intersection were found to result in a broad diversion of vehicular trips along both SE 3rd Street and SE 15th Street. As such, bridge configurations that result in the need for partial or full restriction of turning movements at this location will need to consider the effects on regional multimodal mobility for north-south travel in the project vicinity, including for people walking and biking and emergency response vehicles.

Conclusions of the traffic analysis are provided in the Transportation Analysis Memo included in Appendix 4.

4.8 Geotechnical

The subsurface exploration program consisted of 18 geotechnical borings, three (3) test pits for infiltration testing, ground penetrating radar, and a suite of laboratory testing. In general, bedrock at the site is relatively shallow with depths ranging from 2.25 feet to 12 feet below ground surface. The soil consists of denser fill overlying loose native silty sands and sandy gravels. Ground penetrating radar was performed to screen for large voids or lava tubes in the rock. No large (>1 ft) voids were detected, however, based on experience with construction of the American Way bridge and on other nearby projects, the design team should anticipate encountering lava tubes if rock excavation is needed.

The main geotechnical concern at the site is differential settlement due to the soft overburden soils and the inherent variability of basalt flows. We recommend the bridge and retaining walls be designed to reduce or accommodate elastic differential settlements of less than 3 inches. This can be accomplished by removing the soft material at the bridge footings and replacing with structural backfill. Given the length of the approach walls, replacement of soft soils is cost prohibitive therefore MSE walls with reduced panel sizes can be used to accommodate differential settlement.

Spread footings are the preferred foundation type due to the relatively shallow bedrock. To minimize spread footing depths, soil will be excavated to the top of bed rock, then backfill will be placed up to the elevation of the bottom of the footing. Shoring is anticipated to retain the excavations for the footings so that BNSF construction clearance requirements are met. MSE walls are the preferred wall type at locations greater than 50 feet from the railroad due to their ability to accommodate larger differential settlements. Results of our explorations and our design recommendations are provided in the Preliminary Geotechnical Engineering Report in Appendix 5.

4.9 Business Access

Mars of Bend and Reed Market Storage Access

The existing driveway access to the Mars of Bend (Tax Lot ID 181209AB00100) and Reed Market Storage (Tax Lot ID 181209AB00199) businesses will require relocation due to SE Reed Market Road grade changes for the proposed overcrossing. Two alternatives were considered to mitigate this situation: relocating the businesses off site and providing a new access off the old American Lane alignment southwest of the COID canal.

DOWL determined relocation of the businesses would be cost-prohibitive and was not considered further.

The proposed access relocation requires crossing the COID canal. Our understanding is the open-air canal will eventually be converted to a piped system. Until then, a structural crossing is required. The canal is over 50-feet wide, which precludes the use of culvert pipes, thus requiring a bridge.

Reuse of the existing Old American Lane Bridge in place was determined to be the preferred option. We recommend the roadway be reduced to a 16-foot single lane and precast concrete barriers be pinned to the deck to serve as bridge rails. The existing asphalt concrete should be replaced and any damaged timber decking repaired or replaced. DOWL reinspected and performed an updated load rating confirming the existing bridge can carry legal and permit loads. See Appendix 6 for the load rating summary report. We anticipate the existing bridge has adequate service life remaining to be compatible with COID's long-term plans to pipe the canal. After the canal is piped, a new at-grade access could be constructed over the piping. DOWL also verified design trucks, a WB-40, passenger truck with cargo trailer, box truck, and COB fire pumper truck would be capable of turning off the bridge into the parking lot. It is recommended that the City of Bend Fire Department review the proposed configuration as the existing bridge is narrower than Oregon Fire Code standard. The WB-40 truck is a 7.5-foot-long tractor with a 33-foot trailer and is typical of local delivery trucks. Truck type and size will be verified through conversations with the businesses that they may serve. See Figure 14 below for WB-40 design vehicle details.

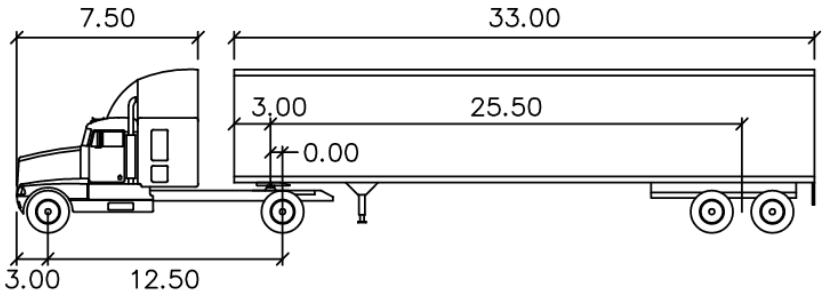


Figure 14. WB-40 Design Truck Dimensions.

The passenger truck with cargo trailer was based on the dimensions of a long wheelbase Ford F-350 with a 40-foot car hauler style trailer. See Figure 15 below.

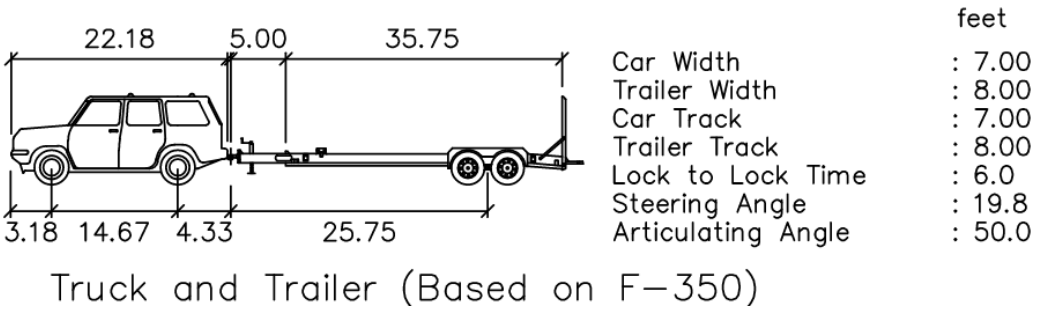


Figure 15. Truck and Trailer. Based on F-350 with 40-foot Car Hauler Trailer

The box truck is based on a standard moving van size for a single rear axle van. See Figure 16 below.

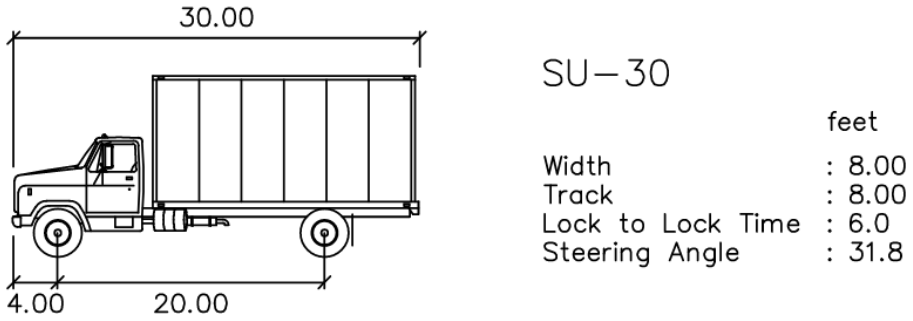


Figure 16. SU-30 Design Vehicle. Based on Single Rear Axle Moving Van.

The Fire pumper truck is based on standard City of Bend pumper trucks. See Figure 17 below.

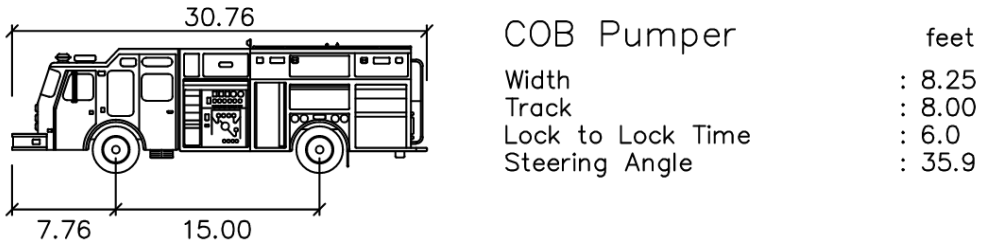


Figure 17. Standard City of Bend Pumper Truck.

Bridge options considered and not selected include constructing a new bridge and moving the existing Old American Lane structure on a new alignment. A new, single-span bridge would require a significant profile raise to provide adequate freeboard over the canal. This would result in the new roadway not being able to drop back down to the existing parking lot elevation in the room available while providing for internal circulation in the lot. It would also cost over $500,000 more than reusing the existing bridge. Since truck turning movements can be accommodated, there was no need to relocate the existing bridge.

Spider City Brewing/Specialty Automotive Service & Repair Access

Access to the two lots occupied by Spider City Brewing (Tax Lot ID 181204DD01700) and Specialty Automotive Service & Repair (Tax Lot ID 181204DC02300) are made through the two existing driveway approaches to SE 9th Street. The southernmost driveway access, the only driveway access for Spider City Brewing, will be impacted by any alternative maintaining the intersection of SE 9th Street and SE Reed Market Road due to the regrading of SE 9th Street. Two alternatives for potential realignment and regrading of this access were evaluated. It has been determined both points of access can be maintained for the short span options, and for the medium span option with SE 9th Street terminating in a cul-de-sac.

Northwest Staple Supply of Bend

Northwest Staple Supply of Bend (Tax Lot ID 181204DC01700) is located immediately west of the railroad crossing on the north side of SE Reed Market Road. All crossing options will remove the ability to access this property from SE Reed Market Road. This property will need to be purchased with this project. The property may be redeveloped in the future if access SE Centennial Ct is made available in the future through shared access agreements with the properties to the north. This is an unknown, so the value of resale or development of this property is excluded from this report.

4.10 Open House Feedback

The open house engaged 322 participants, both online and in-person, gathering valuable insights on project goals and priorities. The public reviewed the goals identified in the 2006 Reed Market Corridor Study of which, the top four goals included: serve all modes of travel, maximize safety, reduce traffic congestion and reduce emergency response times. Of those who commented, most felt the goals were appropriate, while others provided suggestions for additional objectives. Participants highlighted key success indicators, including improved traffic flow, reduced wait times, connectivity for businesses and residents, and enhanced safety for

pedestrians and cyclists. When evaluating design options, 53% expressed a preference for shared-use paths on both sides of the road, emphasizing the need for vertical separation between vehicle lanes and bike/pedestrian facilities.

Additionally, 74% of respondents underscored the importance of 9th Street, citing its role in connectivity, access to businesses, and as a detour for major traffic routes. Many attendees raised concerns regarding construction impacts and detour routes. The City and design team are committed to continued public outreach to communicate the global project benefits of a full closure of Reed Market Road during construction. Additional detail about the December Open House is included in the Public Feedback Summary included in Appendix 7.

5.0 APPROVALS AND COORDINATION

5.1 Railroad Coordination

Wiser Rail Engineering is leading railroad coordination with BNSF to determine the feasibility of design alternatives. Railroad Lead, Tom Wiser coordinated the Rights of Entry to perform Survey and has participated in early design reviews to confirm alignment with the railroad design requirements and preferences. The concept railroad submittal has been reviewed by Wiser Engineering and submitted to BNSF. The design considerations to accommodate the railroad are identified and explained below.

The BNSF right-of-way varies as it crosses Reed Market Road. On the north side of the road, the railroad R/W width is 170’ for approximately 600’ to the north and then it reduces to a standard width of 100’. To the south it varies considerably beyond the irrigation canal, but at Reed Market Rd., it is approximately 125’. The primary concern for railroad is flexibility with future expansion. The design team has prepared a design utilizing a span which provides two future BNSF access roads and a future track on the west side. This fits well within the 100’ BNSF right-of-way that is predominant in this area. The 30% Design Submittal to the railroad is currently under review by BNSF, and will determine if the short span alternative is an acceptable solution.

5.2 Environmental Permitting

DOWL has evaluated federal, state, and local permit requirements and consultation requirements for the proposed project. Work included a compliance assessment to confirm that potentially affected resources, environmental impacts, and mitigation measures are considered. The sections below provide a brief inventory of environmental resources within the project API and proposed permitting needs. For additional details refer to the Environmental Permit Research Memo in Appendix 9. In addition to the specific resources listed below and due to the involvement of federal funds in the form of an RCE FRA grant, the provisions of the National Environmental Policy Act (NEPA) (42 United States Code (USC) §§ 4321) applies to the project. A separate NEPA Class of Action Memo is currently being prepared to determine the level of effort required, pursuant to NEPA, for the project.

Water Resources

A review of the National Wetlands Inventory1 (NWI) mapping indicates one perennial riverine water within the API: Central Oregon Canal (also known as the Deschutes Irrigation and Power [D.I.P] Company Canal). The Central Oregon Canal is an artificial irrigation canal that supports several public and private entities throughout the Central Oregon Irrigation District, including the City. The Central Oregon Canal is in the southwest portion of the API. The NWI mapping and Local Wetland Inventory2 (LWI) mapping do not identify wetlands or other aquatic resources within the API or vicinity. In addition, DOWL completed a site visit to confirm these findings in November 2024.

Irrigation ditches are not jurisdictional under Oregon Administrative Rule (OAR) 141-085-0515(9) if they are operated and maintained for the primary purpose of conveying water for irrigation and if they are dewatered during the non-irrigation season. Therefore, the Central Oregon Canal is not likely to be jurisdictional to Oregon Department of State Lands (DSL); however, it is likely jurisdictional to the USACE 33 Code of Federal Regulation (CFR) 328.3(a)(3). Due to the relatively permanent connection with the Columbia River via the Crooked and Deschutes Rivers and is therefore also a water of the United States. The project is not anticipated to impact jurisdictional waters as currently proposed. Therefore, Section 404 authorization from USACE is not needed.

Hazardous Materials

Coles + Betts Environmental Consulting, LLC, a subconsultant to DOWL, reviewed the API for potential or reported presence of hazardous materials or substances on behalf of the City in September 2024. The September 2024 Report concluded that while the majority of the identified sites were of no environmental concern, soil testing/sampling would be required for soil and groundwater (if present) within and adjacent to property at 1110 SE Reed Market Road, soils adjacent to the existing roadway, and soils adjacent to the elevated existing railroad alignment as it is possible that the soil does not meet Department of Environmental Quality (DEQ) Clean Fill criteria. Additional testing at the aforementioned three locations would be required prior to construction. Should contaminated soils or groundwater be present further mitigation will be required.

Cultural Resources (Archaeological and Historical Considerations)

To determine if previously recorded sites are within the area of potential effect (APE) or vicinity, DOWL's architectural historian conducted a desktop review of the four state and federal historic resources databases. One NRHP site is recorded within the APE: Central Oregon Canal. The Central Oregon Canal was listed on the NRHP in 1991 for being significant under Criteria A, B, and C per 36 Code of Federal Regulations (CFR) 60.43, and received Historic American

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[1] U.S. Fish and Wildlife Service. September 2024. National Wetlands Inventory web mapper. U.S. Department of the Interior. Available: https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/. Accessed September 12, 2024.

[2] City of Bend. September 2024. Local Wetland Inventory Maps. Available: https://data.bendoregon.gov/datasets/bendoregon::local-wetlands-inventory/explore. Accessed September 12, 2024.

[3] For details regarding the criteria used to assess NRHP properties please refer to "eCFR: 36 CFR 60.4 -- Criteria for evaluation" for details.

Engineering Record (HAER) documentation in 1998 (HAER No. OR-63). An additional five NRHP-documented properties were identified within a one-mile radius of the APE. Two properties are eligible for listing in the NRHP: 1110 SE Reed Market Road and the Old American Lane Bridge. A determination of eligibility (DOE) is currently being prepared for the two aforementioned properties, which will be sent to the state historic preservation office (SHPO) as part of the Section 106 process. Once the DOE has been processed, impacts to the properties can be evaluated. The other three documented properties have either been determined not eligible for listing or have since been demolished. No archaeological resources were identified within the APE.

FRA grant funding is subject to compliance with the Section 106 review process per the National Historic Preservation Act (NHPA) of 1966. Section 106 requires federal agencies to consider the effects of a potential project on historic properties. Consultation is required with Oregon SHPO, local tribes, and public interest parties.

5.3 Noise and Air Quality

A qualitative air quality impact analysis is underway and will be performed in accordance with the latest EPA and FHWA guidance, FRA and the Oregon Department of Transportation regulations, guidelines and methodologies. The analysis will include considerations of carbon monoxide (CO) analysis as needed based on the expected traffic data for the Opening and Design Year conditions. The Air Quality Technical Memorandum will be submitted with the 30% design deliverable. For the alternatives analysis, short and medium bridge overcrossing span lengths were considered and the following preliminary observations about air quality were noted.

The short and medium span bridge alternatives will provide similar air quality impacts and provide some air quality improvements relative to the existing crossing since roadway traffic will not need to queue up waiting for trains to pass and thus having their engines idle. Construction emissions will be similar between the two alternatives as well. No operational impacts are anticipated from either alternative and construction emissions would be temporary and reduced using typical reduction strategies such as application of dust suppressant.

A noise and vibration impact analysis is underway and will be completed implementing a hybrid approach comprised of methods used on Federal Highway Administration (FHWA) projects associated with 23 CFR 772 and FRA projects, which has adopted the methodologies provided in the Federal Transit Administration (FTA) Noise and Vibration Impact Assessment Manual. The Noise and Vibration Technical Report will be submitted with the 30% design deliverable. For the alternatives analysis, short and medium bridge overcrossing span lengths were considered and the following preliminary observations about noise and vibration were noted.

Both short and medium span length alternatives exhibit similar impacts, though the longer bridge span may produce slightly increased sound levels in adjacent neighborhoods. This is attributed to vehicles being higher in elevation for longer with the longer span compared to the shorter span. This is also applicable on the longer span approaches. This elevation may marginally increase noise exposure for residential areas located south and west of the crossing. These variations are considered minimal, given that traffic is expected to move at lower speeds, mitigating significant noise impacts. Additionally, both alternatives would provide noise reduction benefits by removing the need for trains to use their warning devices (horns) at Reed Market Road, enhancing the sound environment for the area. Temporary construction noise is

anticipated during implementation, but strategies such as shutting down idling equipment and limiting work to daytime hours where possible would help reduce this impact.

6.0 COST ESTIMATES

The Association for the Advancement of Cost Engineering (AACE) has developed a standardized system for distinguishing cost estimates based on their level of detail and accuracy ranking from class five to class one, with the level of accuracy increasing as you approach class one. Class three cost estimates were prepared for each alternative to aid in cost-based decision making. These estimates are based on historical data from similar projects constructed in the city of Bend and are subject to a range of uncertainty of minus 20% to plus 30% of the total estimate. The estimates include the payment section and types based on Oregon Department of Transportation (ODOT) standards and specifications for construction. Quantities were estimated to reflect each alternative. Table 1, Table 2, and Table 3 below show summarized cost estimates for each alternative. See Appendix 2 for detailed cost estimates.

Table 1. Alternative 1A Class IV Cost Estimate

-20%	Alternative 1 – Steel Class III Cost Estimate	+30%
$38,300,000	$47,900,000	$62,200,000

Table 2. Alternative 1B Class IV Cost Estimate

-20%	Alternative 1 - Concrete Class III Cost Estimate	+30%
$37,900,000	$47,400,000	$61,700,000

Table 3. Alternative 2 Class IV Cost Estimate

-20%	Alternative 2 Class III Cost Estimate	+30%
$37,100,000	$46,400,000	$60,300,000

7.0 SUMMARY

Alternative 1 is a short (86-ft) span bridge that minimizes the structure depth and maintains the existing connections to American Lane and SE 9th Street while meeting the minimum required Railroad clearances and minimum roadway design criteria. The short span bridge can be steel (1A) or concrete (1B) superstructure with a cast in place concrete abutment and spread footing. A steel superstructure is preferred to accommodate the roadways vertical curve and minimize using a significant quantity of asphalt.

Alternative 2 is a medium (142-ft) span steel bridge that spans the east side of the BNSF ROW, maintains the existing connections to American Lane and requires the closure of SE 9th Street. The additional roadway height and span length of the 142-foot span alternative would result in significant additional impractical impacts to City facilities:

- The 142-foot span would likely require raising and reconstructing three traffic signals and one illumination pole at American Lane and construction of additional retaining walls east and west along Reed Market Road due to the increased roadway height along the project corridor. The preferred bridge would require minor roadway regrading at the American Lane intersection with Reed Market Road, and likely only impact one traffic signal.
- The intersection of Reed Market Road and 9th Street would require closure due to the significant grade difference at the intersection, which would result in decreased pedestrian accessibility and safety, increased emergency response times, and major impacts to local business owners. The preferred bridge design can preserve the 9th Street connection and maintain the current level of access to local businesses.

- The 142-foot span would create additional impacts to City and franchise utilities including water, sewer, storm facilities, communications, and natural gas. There would also be increased need for temporary and permanent ROW acquisition.

Alternative 1 with a span length of 86-feet is the preferred bridge length as outlined in this Alternatives Analysis. This alternative maintains critical existing roadway connections to American Lane and 9th Street, will be similar in layout to the existing section of Reed Market Road, allows for improved pedestrian safety and connectivity, and meets minimum BNSF clearance requirements. Alternative 1 is a mutually beneficial solution that will positively serve both BNSF and the residents of Bend.

8.0 NEXT STEPS

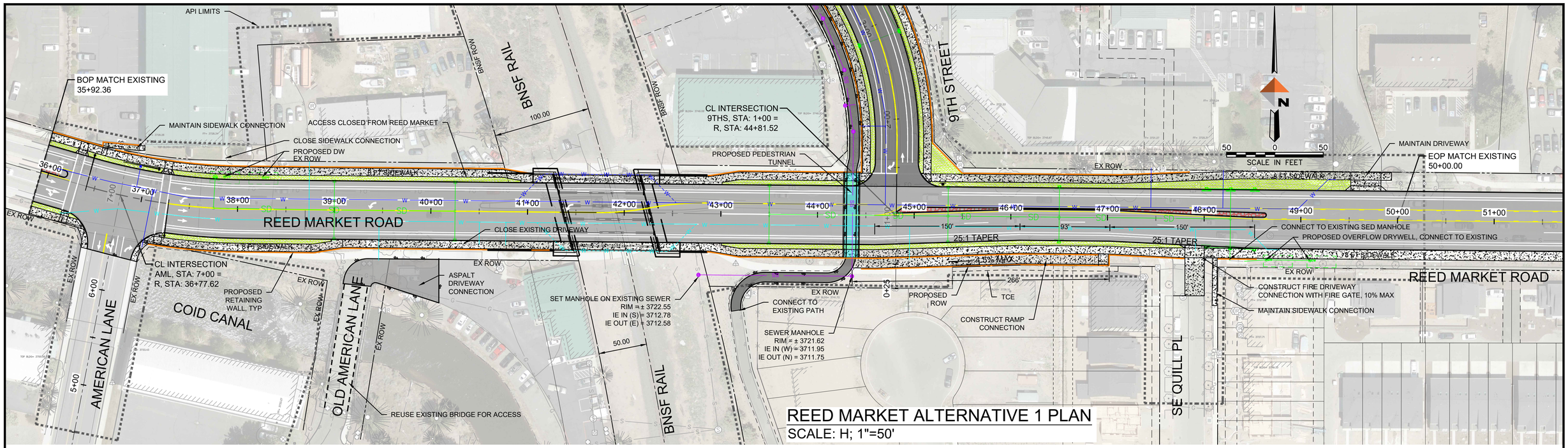
Following the Draft Alternatives Analysis, the design team received a request from the railroad to explore the implications of increasing the 86-foot short span alternative by approximately 20-ft to accommodate an additional future rail line. DOWL completed the analysis of the 108-ft alternative and concluded that while it does raise the elevation of Reed Market at 9th Street by approximately 9-inches, it is still possible to increase the span and maintain tie ins with American Lane and 9th Street. The railroad indicated initial approval of our concept for the 108-ft span configuration via email in late September 2025. The Approved RR Exhibit Concept Design is provided in Appendix 8.

A concept level adjustment of the costs to reflect the 108-ft span alternative established that the bridge costs increased, while the wall costs were reduced. The net increase to project cost was approximately $500,000. Upon further discussions with the City, DOWL is proceeding with the 30% Design and advancing the NEPA process assuming a 108-ft span.

The overall project timeline assumes construction starts in summer 2027 with substantial completion of construction in late summer 2028. Coordination with the Federal Railroad Administration (FRA) continues, with funding status being closely monitored to ensure alignment with design progress, grant performance period and NEPA Permitting approvals. Following 30% design the city will select a procurement method to complete final design with a goal of beginning construction in 2027.

Ongoing coordination with the BNSF railroad is critical to attain approvals, begin the ROW easement acquisition process with the railroad and cement design assumptions. In parallel, public involvement efforts will continue, including stakeholder engagement, to build consensus and incorporate community input.

APPENDIX 1:
PLANS



REED MARKET ALTERNATIVE 1 PLAN

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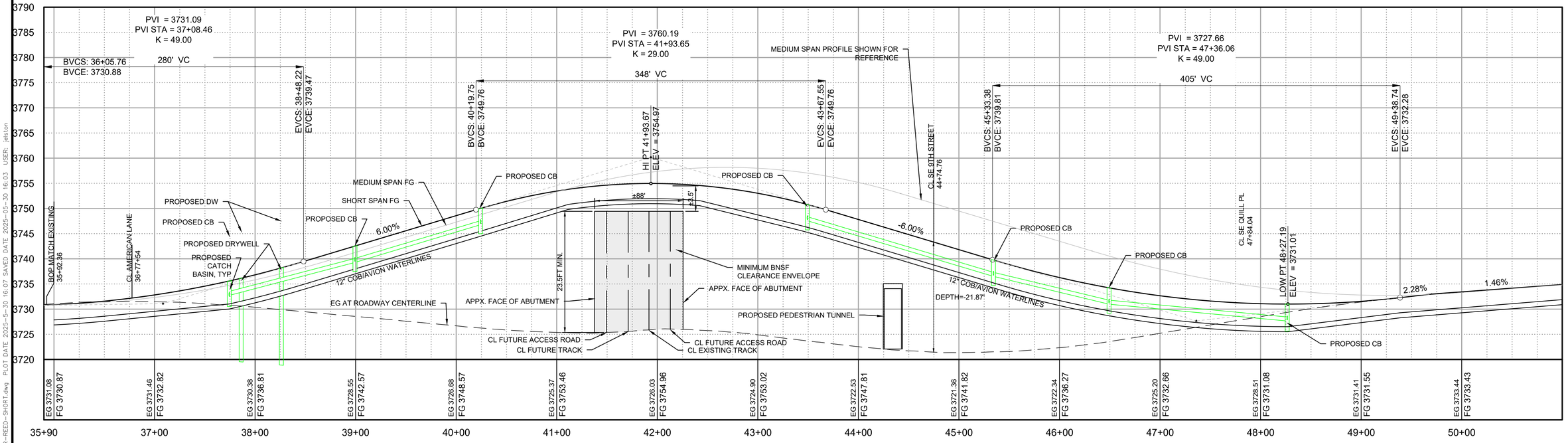

REED MARKET ALTERNATIVE 1 PROFILE

SCALE: H; 1"=50' | V; 1"=10'

REVISIONS			
REV	DATE	DESCRIPTION	BY

DOWL
WWW.DOWL.COM
1001 SW Emkay Drive, Suite 120
Bend, Oregon 97702
541-385-4772

REED MARKET OVERCROSSING
REED MARKET ROAD
ALTERNATIVE 1
PLAN AND PROFILE
SE 9TH STREET AND SE REED MARKET ROAD
BEND, OREGON

PROJECT 14967.01
DATE 4/29/2025

SHEET
SS-1N

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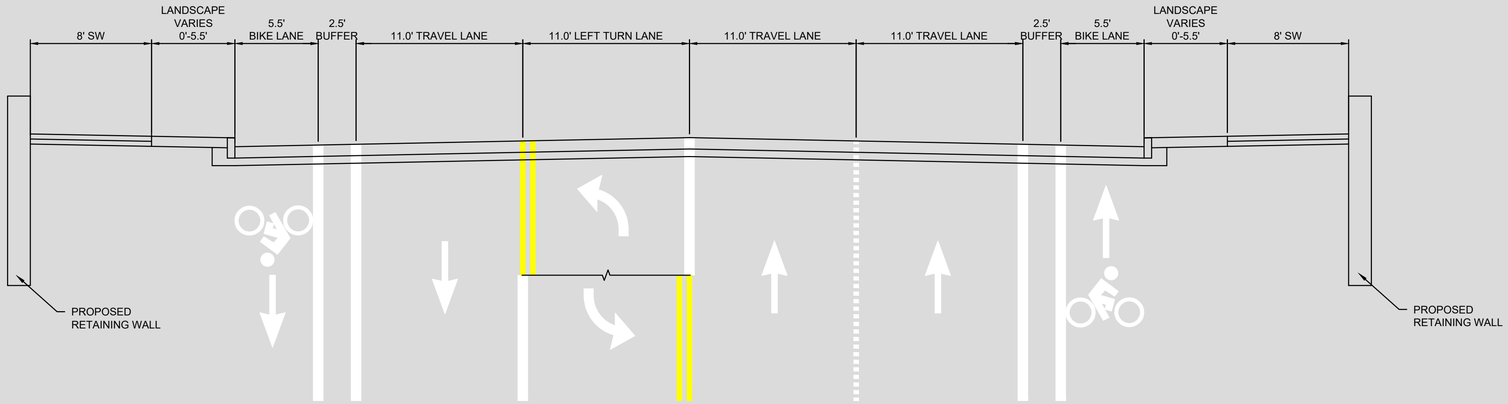

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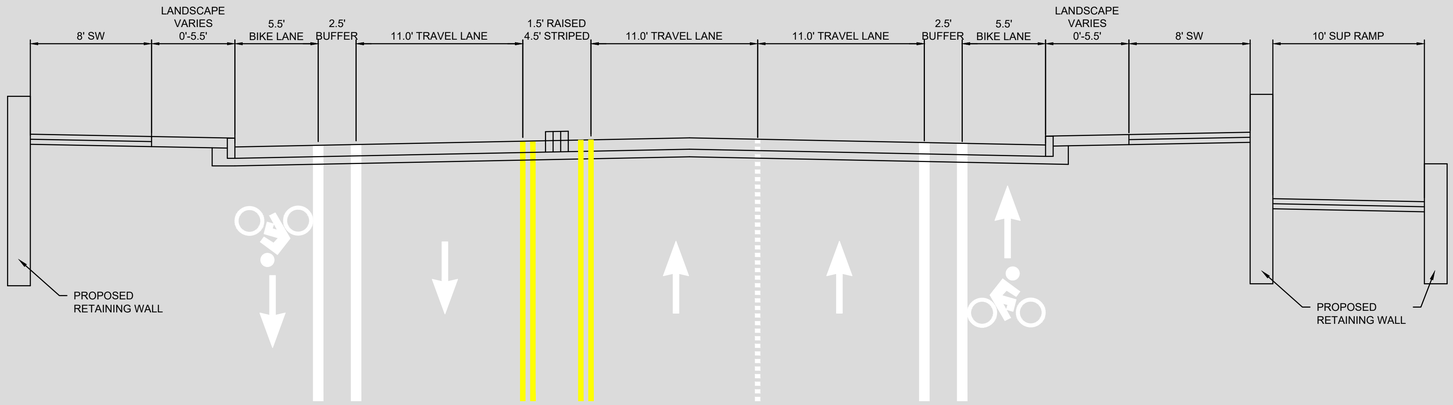

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SCALE: 1"=5'

REVISIONS			
REV	DATE	DESCRIPTION	BY

DOWL
WWW.DOWL.COM
1001 SW Emkay Drive, Suite 120
Bend, Oregon 97702
541-385-4772

REED MARKET OVERCROSSING
REED MARKET ROAD

ALTERNATIVE 1
ROADWAY TYPICAL SECTIONS

SE 9TH STREET AND SE REED MARKET ROAD
BEND, OREGON

PROJECT	14967.01
DATE	4/29/2025

SHEET

SS-1N X

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PROPOSED SUP UNDERCROSSING

REED MARKET ROAD

CL INTERSECTION
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R, STA: 44+81.52

REALIGN 8" SANITARY SEWER
THROUGH UNDERCROSSING AND OUT
OF ROADWAY FILL
MAINTAIN EXISTING DRIVEWAY
REGRADE

EX ROW

QUILL PLACE

PROPOSED
RETAINING
WALL, TYP.

PROPOSED CB

8' FF SIDEWALK

API (TYP)

9TH STREET

PROPOSED DRYWELL

EOP MATCH EXISTING
5+94.28

CL INTERSECTION
QUILL, STA: 0+00 =
R, STA: 47+84.14

MAINTAIN EXISTING DRIVEWAY
REGRADE

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SCALE IN FEET

9TH STREET ALTERNATIVE 1 PLAN
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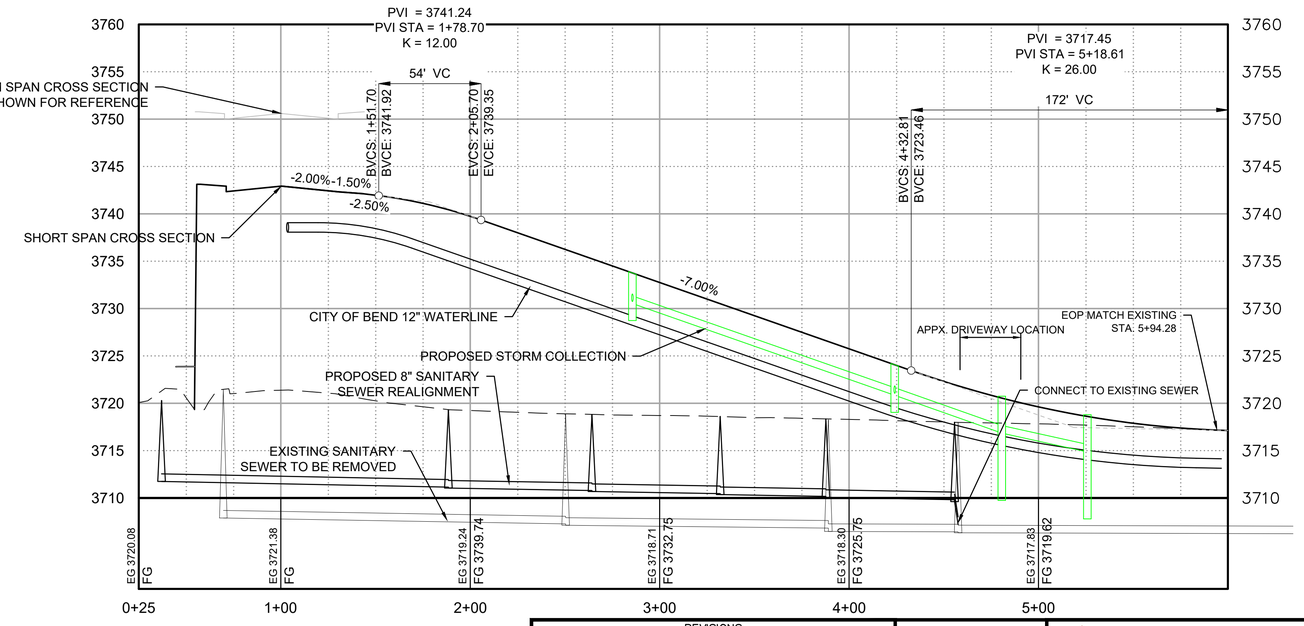

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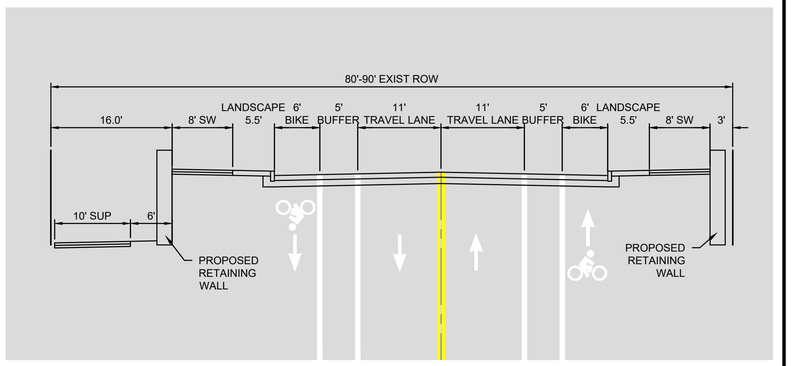

9TH STREET TYP. SECTION
SCALE: 1"=5'

REVISIONS			
REV	DATE	DESCRIPTION	BY

DOWL
WWW.DOWL.COM
1001 SW Emkay Drive, Suite 120
Bend, Oregon 97702
541-385-4772

REED MARKET OVERCROSSING
9TH STREET CONNECTION EXHIBITS

ALTERNATIVE 1 CONNECTION PLAN AND PROFILE

SE 9TH STREET AND SE REED MARKET ROAD
BEND, OREGON

PROJECT	14967.01
DATE	3/18/2025

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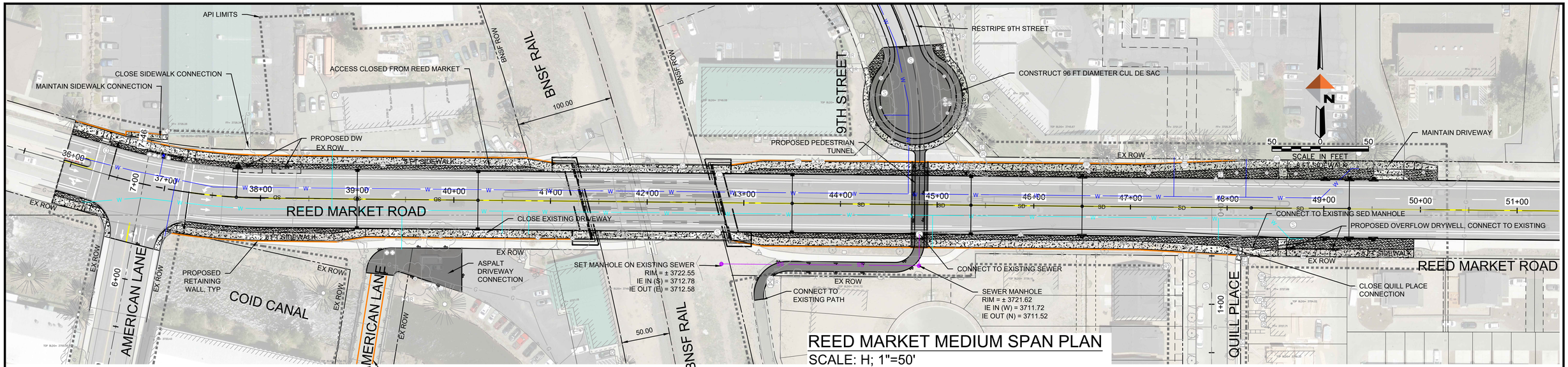

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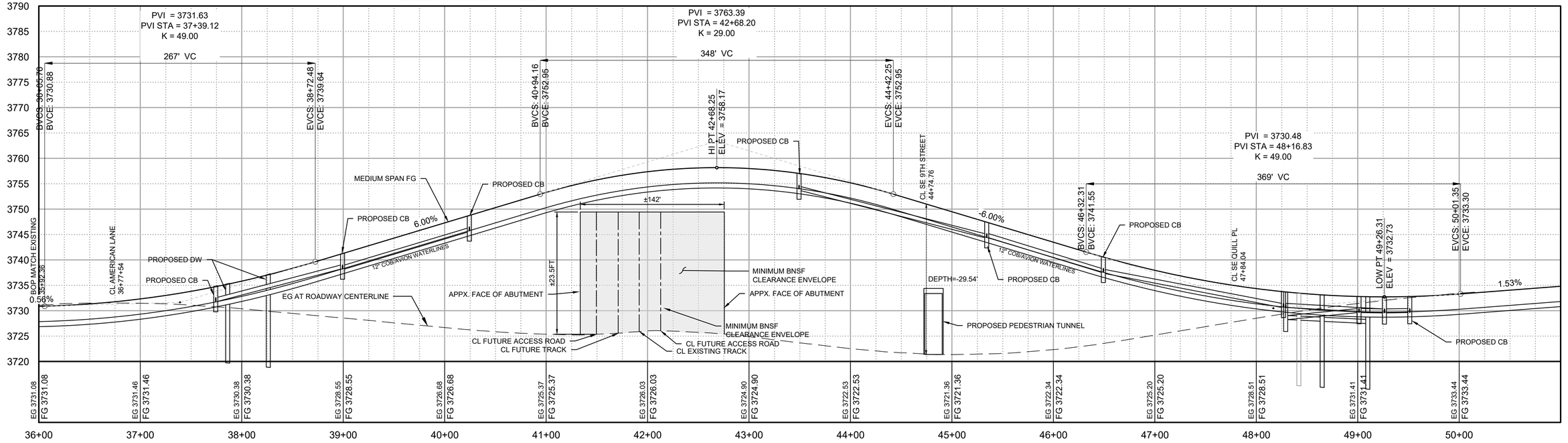

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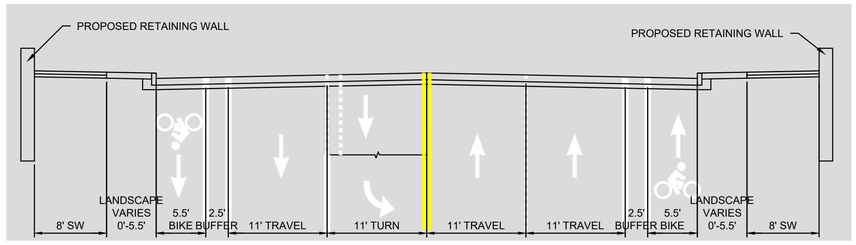

REVISIONS			
REV	DATE	DESCRIPTION	BY

DOWL
WWW.DOWL.COM
1001 SW Emkay Drive, Suite 120
Bend, Oregon 97702
541-385-4772

REED MARKET OVERCROSSING
REED MARKET ROAD
MEDIUM SPAN PLAN AND PROFILE
SE 9TH STREET AND SE REED MARKET ROAD
BEND, OREGON

PROJECT	14967.01
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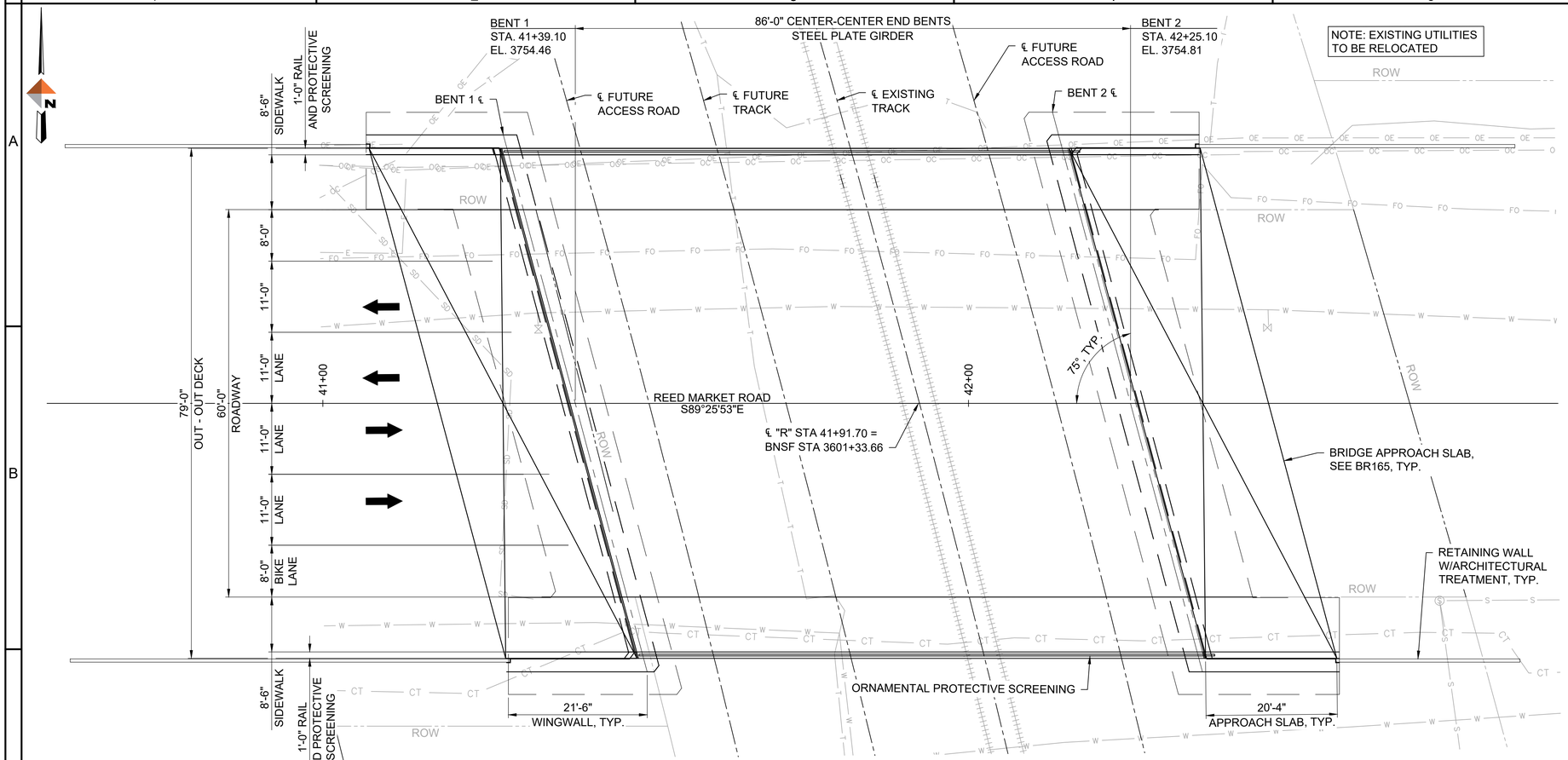

PLAN

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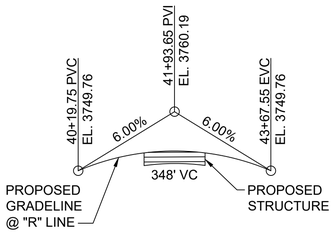

GRADELINE DIAGRAM

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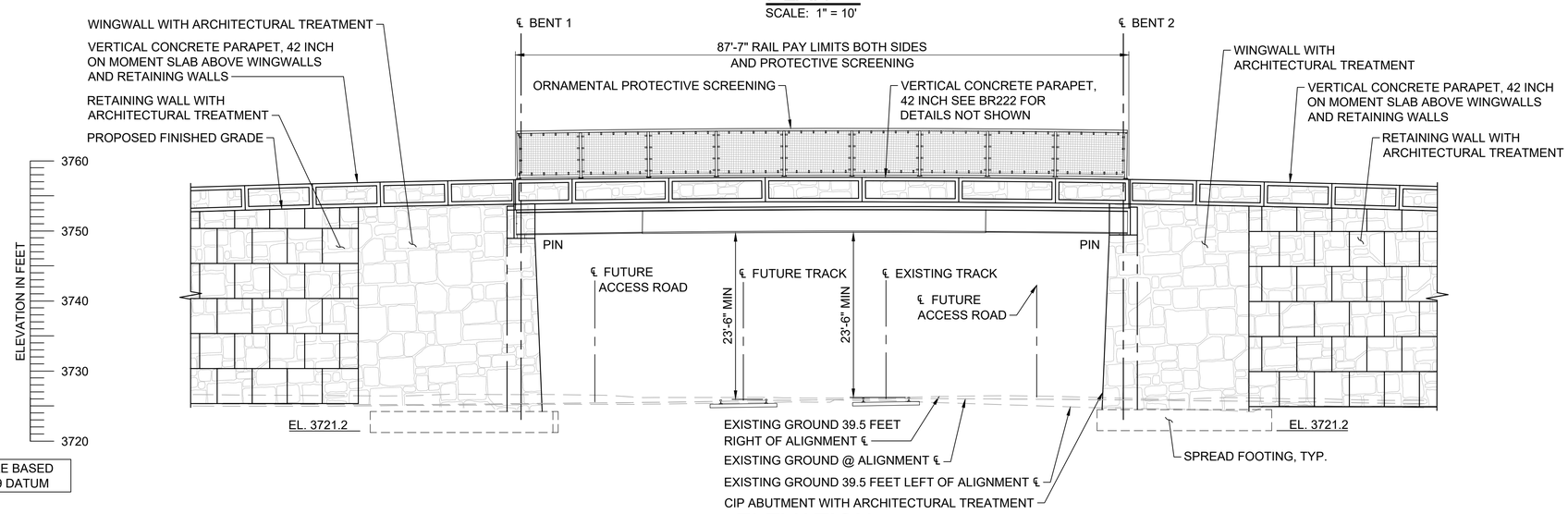

ELEVATIONS ARE BASED ON THE NGVD29 DATUM

ELEVATION

SCALE: 1" = 10'

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
TANNER TORKELSON
CONCEPT PLANS NOT FOR CONSTRUCTION
EXPIRES: 06/30/2026

REED MARKET CORRIDOR STUDY

ALTERNATIVE 1 STEEL PLATE GIRDER PLAN AND ELEVATION

DESCHUTES COUNTY, OREGON

CITY OF BEND

REVISIONS:

DOWL
WWW.DOWL.COM
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772

DESIGNED BY: T.T.
DRAWN BY: I.F.
SCALE: VARIES
FILE: SC-ST-PE02-14967
DATE: 04/2025

VERIFY SCALES
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SHEET:

COB #
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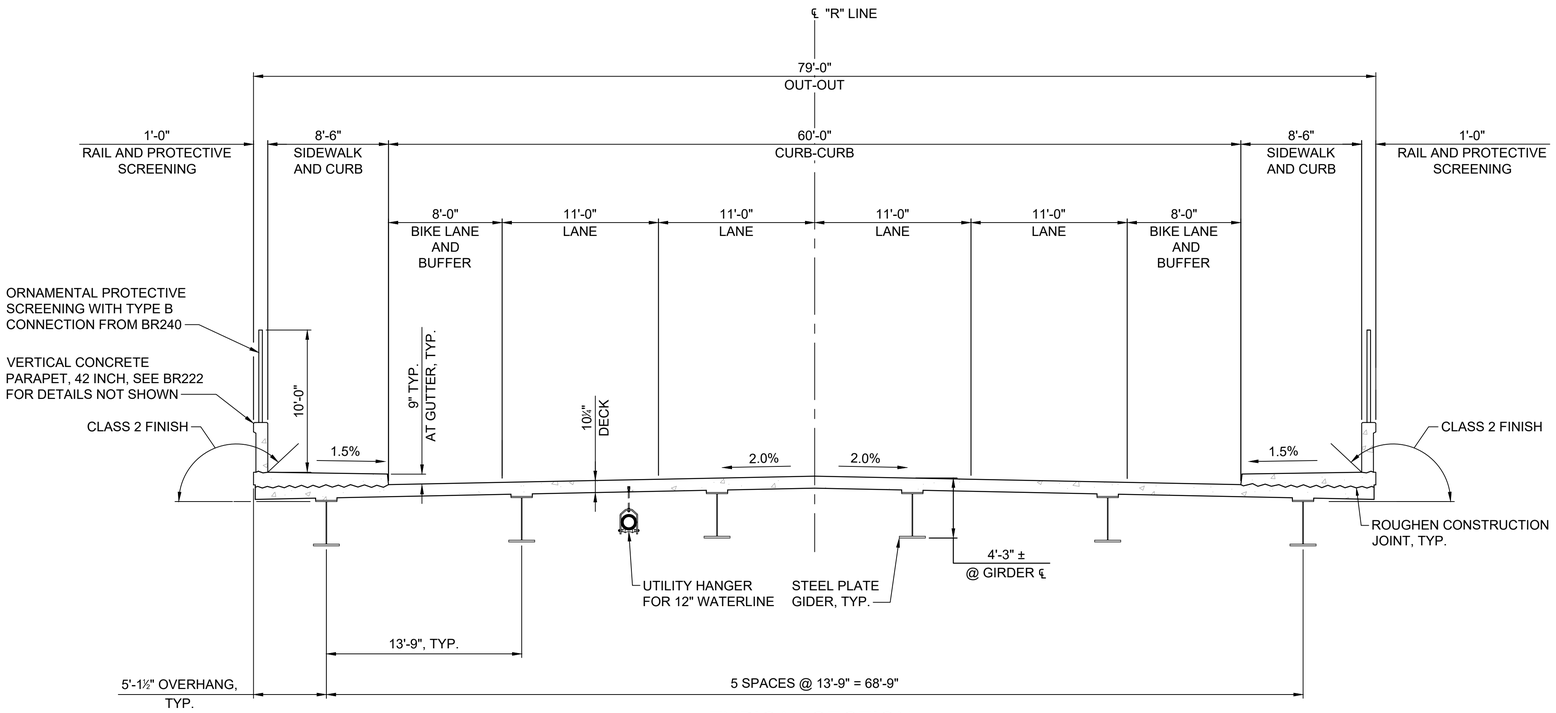

TYPICAL SECTION

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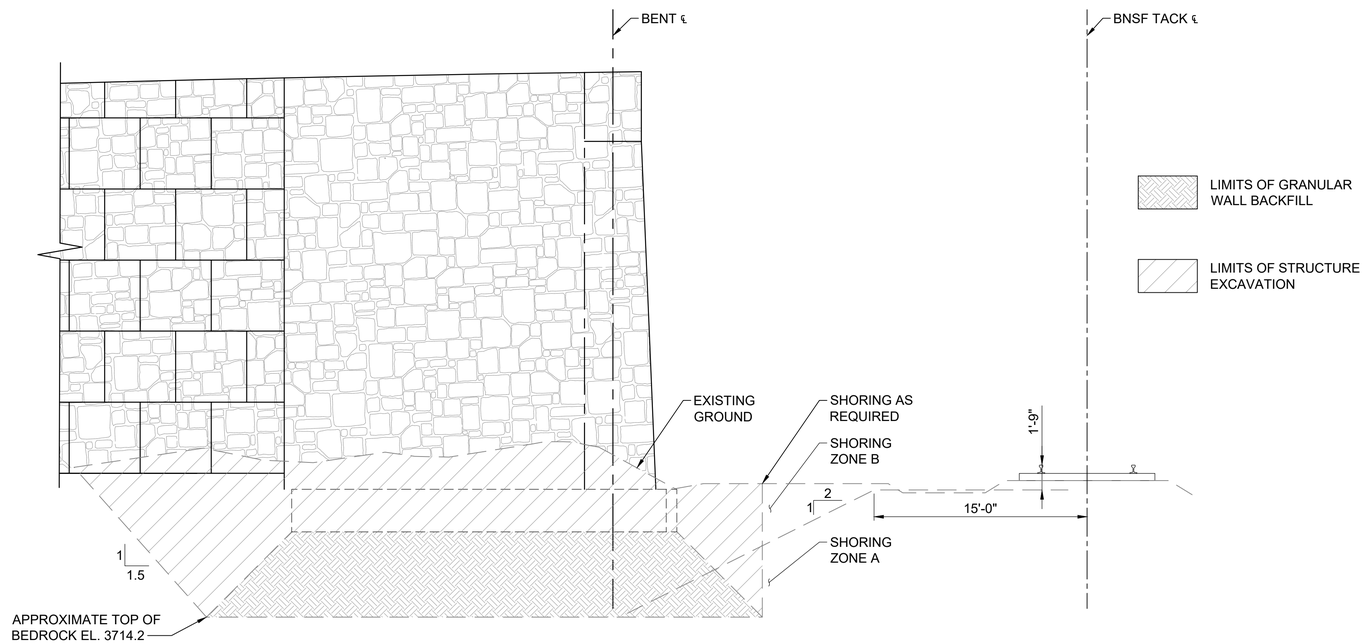

STRUCTURE EXCAVATION AND BACKFILL DIAGRAM (SHOWN PERPENDICULAR TO BNSF TACK CL)

SCALE: 3/16" = 1'

GENERAL NOTES

PROVIDE ALL MATERIALS AND PERFORM ALL WORK ACCORDING TO THE "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION" 2024.

BRIDGE IS DESIGNED IN ACCORDANCE WITH THE 2020 EDITION OF THE "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" WITH AN ALLOWANCE OF 25 PSF FOR FUTURE WEARING SURFACE AND ALL OF THE FOLLOWING LIVE LOADS:

SERVICE AND STRENGTH I LIMIT STATES:

- HL-93: DESIGN TRUCK (OR TRUCKS PER LRFD 3.6.1.3) OR THE DESIGN TANDEMS AND THE DESIGN LANE LOAD.

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
NOLAN TANNER TORKELSON
EXPIRES: 06/30/2026

REED MARKET CORRIDOR STUDY

ALTERNATIVE 1 STEEL PLATE GIRDER TYPICAL SECTION

DESCHUTES COUNTY, OREGON

CITY OF BEND

REVISIONS:

DOWL
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772
www.dowl.com

DESIGNED BY: T.T.
DRAWN BY: I.F.
SCALE: VARIES
FILE: SC-ST-TYP-2-14967
DATE: 04/2025

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:

COB #
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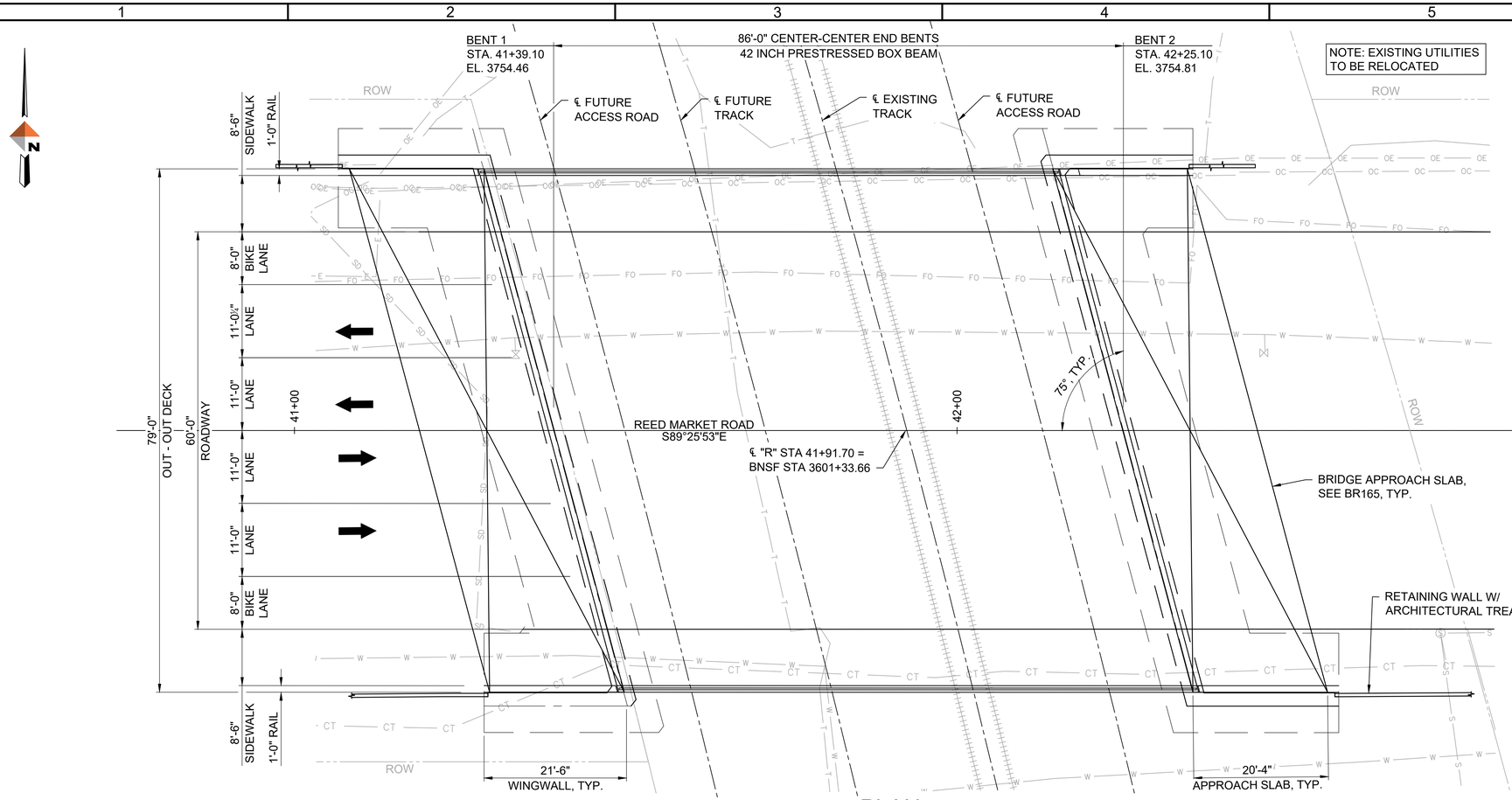
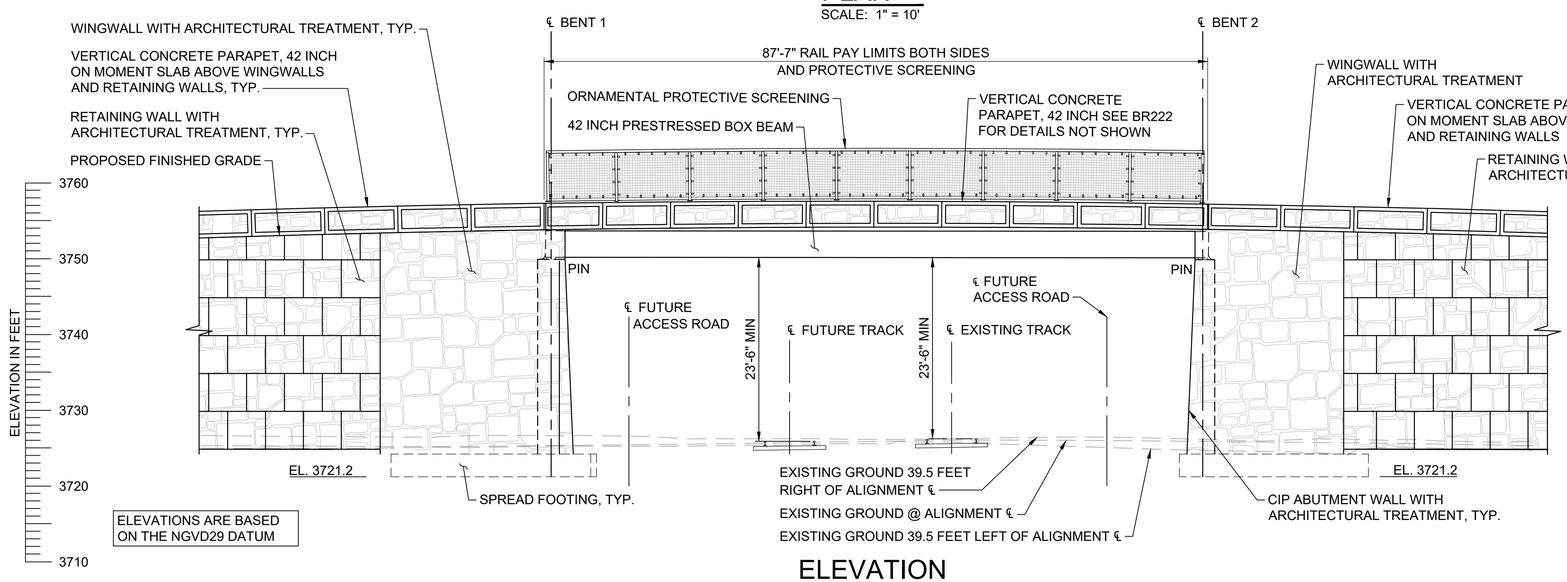
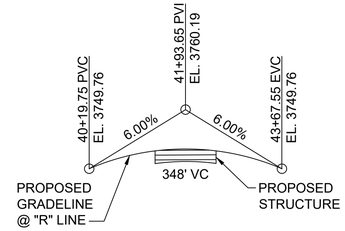


PLAN
SCALE: 1" = 10'



ELEVATION
SCALE: 1" = 10'



GRADELINE DIAGRAM
NO SCALE

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
KRISTOFFER TORKELSON
EXPIRES: 06/30/2026

REED MARKET CORRIDOR STUDY

ALTERNATIVE 1 PRESTRESSED BOX PLAN AND ELEVATION

DESCHUTES COUNTY, OREGON

CITY OF BEND

REVISIONS:

DOWL
www.dowl.com
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772

DESIGNED BY: T.T.
DRAWN BY: I.F.
SCALE: VARIES
FILE: SC-ST-PE04-14967
DATE: 04/2025

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:

COB #
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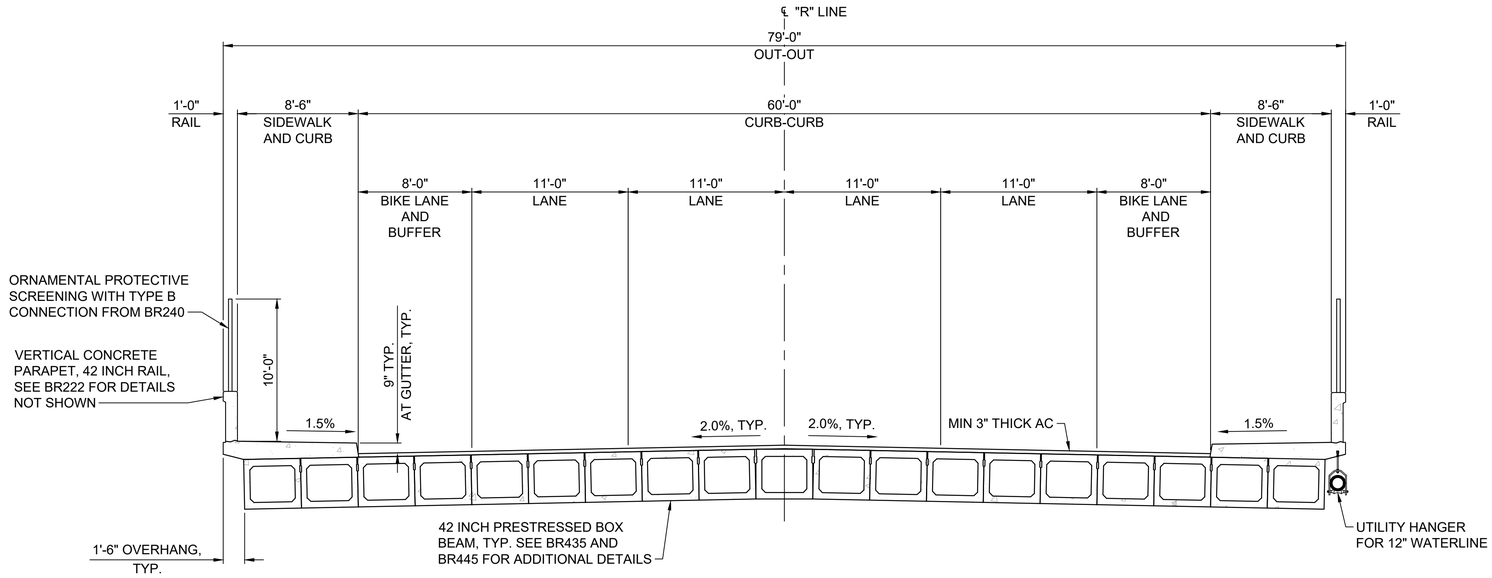
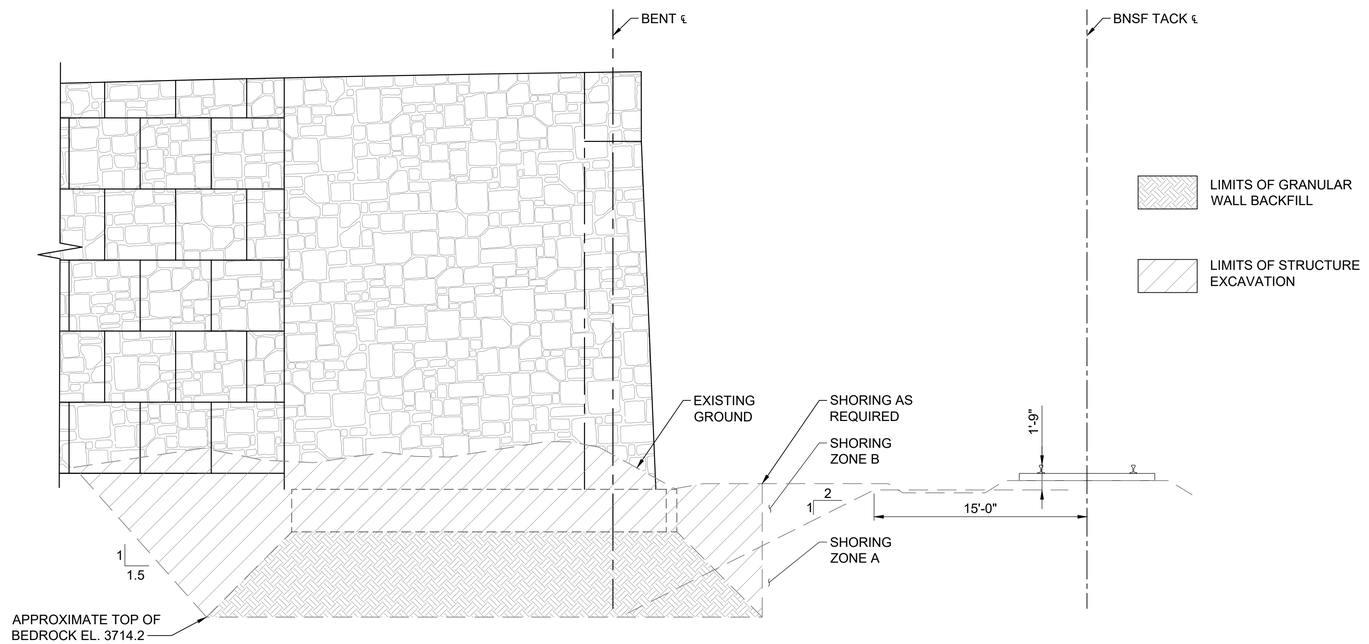


TYPICAL SECTION

SCALE: 3/16" = 1'



STRUCTURE EXCAVATION AND BACKFILL DIAGRAM (SHOWN PERPENDICULAR TO BNSF TACK CL)

SCALE: 3/16" = 1'

GENERAL NOTES

PROVIDE ALL MATERIALS AND PERFORM ALL WORK ACCORDING TO THE "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION" 2024.

BRIDGE IS DESIGNED IN ACCORDANCE WITH THE 2020 EDITION OF THE "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" WITH AN ALLOWANCE OF 25 PSF FOR FUTURE WEARING SURFACE AND ALL OF THE FOLLOWING LIVE LOADS:

SERVICE AND STRENGTH I LIMIT STATES:

- HL-93: DESIGN TRUCK (OR TRUCKS PER LRFD 3.6.1.3) OR THE DESIGN TANDEMS AND THE DESIGN LANE LOAD.

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
TANNER TORKELSON
EXPIRES: 06/30/2026

CONCEPT PLAN
NOT FOR CONSTRUCTION

REED MARKET CORRIDOR STUDY

ALTERNATIVE 1 PRESTRESSED BOX TYPICAL SECTION

DESCHUTES COUNTY, OREGON

CITY OF BEND

REVISIONS:

DOWL
WWW.DOWL.COM
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772

DESIGNED BY: T.T.
DRAWN BY: I.F.
SCALE: VARIES
FILE: SC-ST-TYP-3-14967
DATE: 04/2025

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:

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BENT 1
STA. 41+33.69
EL. 3755.05

142'-0" CENTER - CENTER END BENTS
STEEL PLATE GIRDER

BENT 2
STA. 42+75.69
EL. 3758.16

NOTE: EXISTING UTILITIES TO BE RELOCATED

℄ FUTURE ACCESS ROAD
℄ FUTURE TRACK
℄ EXISTING TRACK
℄ FUTURE ACCESS ROAD

8'-6" SIDEWALK
1'-0" RAIL
8'-0" BIKE LANE
11'-0" LANE
11'-0" LANE
11'-0" LANE
11'-0" LANE
8'-0" BIKE LANE
79'-0" OUT - OUT DECK
60'-0" ROADWAY

41+00
42+00
43+00

REED MARKET ROAD
S89°25'53"E

℄ "R" STA 41+91.70 =
BNSF STA 3601+33.66

19'-10"
75° TYP.

VERTICAL CONCRETE PARAPET, 42 INCH ON MOMENT SLAB ABOVE WINGWALLS AND RETAINING WALLS

BRIDGE APPROACH SLAB, SEE BR165, TYP.

RETAINING WALL W/ ARCHITECTURAL TREATMENT, TYP.

21'-6"
WINGWALL, WITH ARCHITECTURAL TREATMENT TYP.

EXISTING ROW

20'-4"
APPROACH SLAB, TYP.

PLAN
SCALE: 1" = 10'

40+94.16 PVC
EL. 3752.95
6.00%
42+68.20 PVI
EL. 3763.39
6.00%
44+42.25 EVC
EL. 3752.95
348' VC

PROPOSED GRADELINE @ "R" LINE
PROPOSED STRUCTURE

GRADELINE DIAGRAM
NO SCALE

WINGWALL WITH ARCHITECTURAL TREATMENT
VERTICAL CONCRETE PARAPET, 42 INCH ON MOMENT SLAB ABOVE WINGWALLS AND RETAINING WALLS
RETAINING WALL WITH ARCHITECTURAL TREATMENT
PROPOSED FINISHED GRADE

℄ BENT 1
℄ BENT 2
143'-7" BRIDGE RAIL AND ORNAMENTAL PROTECTIVE SCREENING PAY LIMITS BOTH SIDES
ORNAMENTAL PROTECTIVE SCREENING
VERICAL CONCRETE PARAPET, 42 INCH, SEE BR222 FOR DETAILS NOT SHOWN
VERTICAL CONCRETE PARAPET, 42 INCH ON MOMENT SLAB ABOVE WINGWALLS AND RETAINING WALLS

ELEVATION IN FEET
3760
3750
3740
3730
3720

PIN
PIN

℄ FUTURE ACCESS ROAD
℄ FUTURE TRACK
℄ EXISTING TRACK
℄ FUTURE ACCESS ROAD
23'-6" MIN
23'-6" MIN

WINGWALL WITH ARCHITECTURAL TREATMENT
CIP ABUTMENT WALL WITH ARCHITECTURAL TREATMENT
RETAINING WALL WITH ARCHITECTURAL TREATMENT

EXISTING GROUND 39.5 FEET RIGHT OF ALIGNMENT ℄
EXISTING GROUND 39.5 FEET LEFT OF ALIGNMENT ℄
EXISTING GROUND @ ALIGNMENT ℄

EL. 3721.2
EL. 3721.2

SPREAD FOOTING, TYP.

ELEVATIONS ARE BASED ON THE NGVD29 DATUM

ELEVATION
SCALE: 1" = 10'

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
CONCEPTUAL DESIGN NOT FOR CONSTRUCTION
EXPIRES: 06/30/2026

REED MARKET CORRIDOR STUDY

ALTERNATIVE 2
PLAN AND ELEVATION
DESCHUTES COUNTY, OREGON

CITY OF BEND

REVISIONS:

DOWL
WWW.DOWL.COM
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772

DESIGNED BY: T.T.
DRAWN BY: I.F.
SCALE: VARIES
FILE: SC-ST-PE01-14967
DATE: 04/2025

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:

COB #
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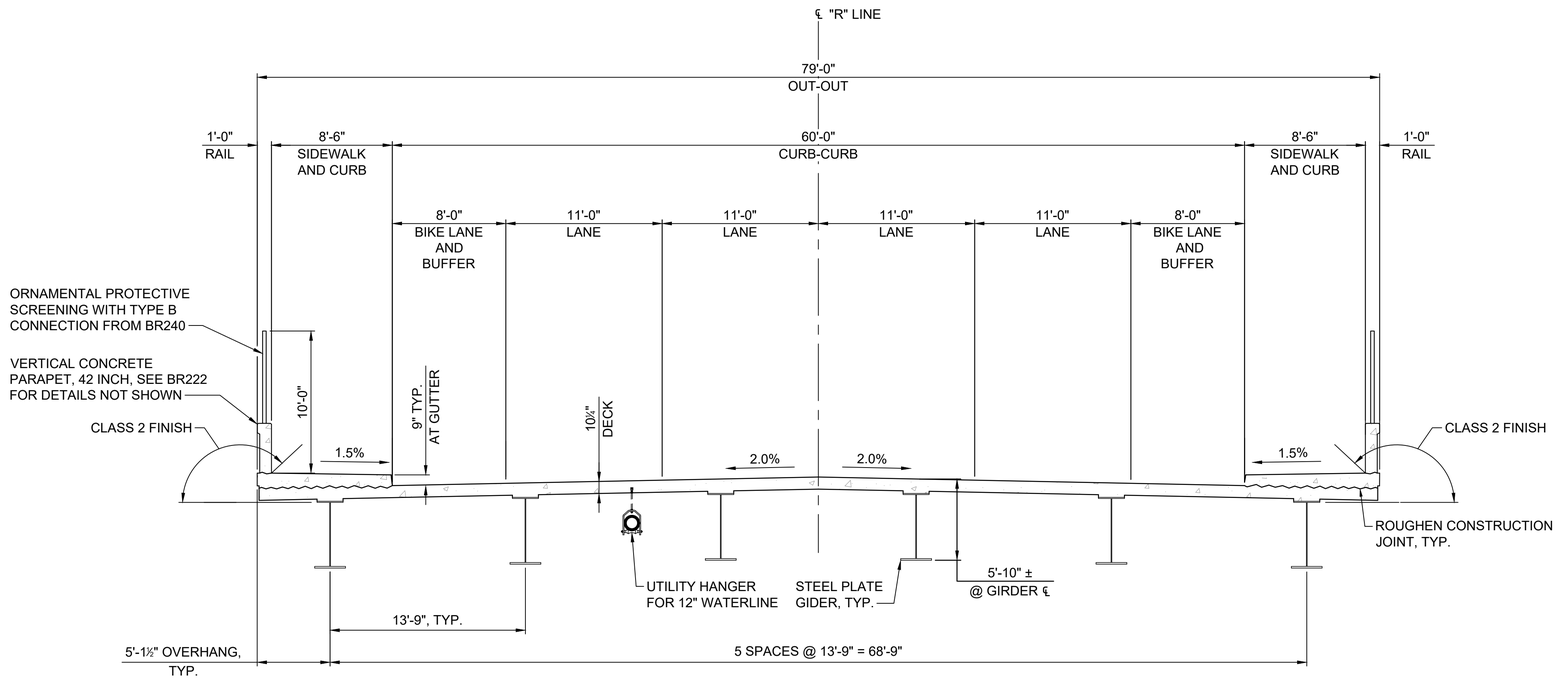
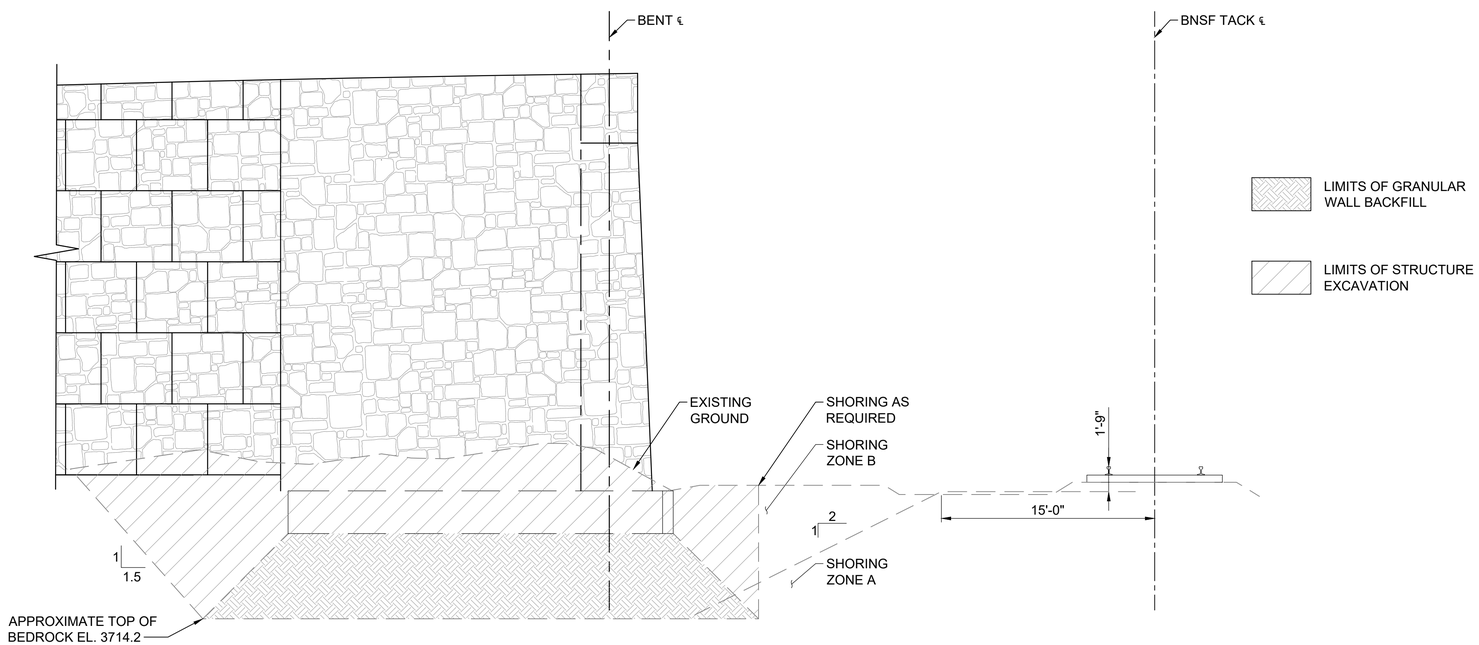


TYPICAL SECTION

SCALE: 3/16" = 1'



STRUCTURE EXCAVATION AND BACKFILL DIAGRAM (SHOWN PERPENDICULAR TO BNSF TACK CL)

SCALE: 3/16" = 1'

GENERAL NOTES

PROVIDE ALL MATERIALS AND PERFORM ALL WORK ACCORDING TO THE "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION" 2024 AND THE SPECIAL PROVISIONS.

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REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
CONCEPTUAL PLANS
NOT FOR CONSTRUCTION
EXPIRES: 06/30/2026

REED MARKET CORRIDOR STUDY

ALTERNATIVE 2
TYPICAL SECTION
DESCHUTES COUNTY, OREGON

CITY OF BEND

REVISIONS:

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963 SW Simpson, #200
Bend, Oregon 97702
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DESIGNED BY: T.T.
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FILE:SC-ST-TYP-1-14967
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ON ORIGINAL DRAWING

SHEET:

COB #
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APPENDIX 2:
COST ESTIMATE

Item No.	Description	Section	Unit	Unit Price	QTY	Total
1	Mobilization	00210	LS	$ 2,825,400.00	1	$ 2,825,400.00
2	Temporary Work Zone Traffic Control, Complete	00221	LS	$ 141,300.00	1	$ 141,300.00
3	RR Requirements and Flagging	00221	LS	$ 270,000.00	1	$ 270,000.00
4	Erosion Control	00280	LS	$ 141,300.00	1	$ 141,300.00
5	Pollution Control Plan	00290	LS	$ 1,500.00	1	$ 1,500.00
6	Construction Survey Work	00305	LS	$ 423,800.00	1	$ 423,800.00
7	Removal of Structures and Obstructions	00310	LS	$ 565,100.00	1	$ 565,100.00
8	Removal of Pipes	00310	LF	$ 80.00	4340	$ 347,200.00
9	Clearing and Grubbing	00320	LS	$ 70,600.00	1	$ 70,600.00
10	Embankment in Place	00330	CY	$ 32.00	46221	$ 1,479,072.00
11	8 Inch 3034 Sanitary Sewer Pipe, 10 foot depth	00445	FT	$ 243.20	580	$ 141,056.00
12	8 Inch 3034 PVC Storm Sewer Pipe	00445	FT	$ 120.00	156	$ 18,720.00
13	8 Inch C900 Storm Sewer Pipe	00445	FT	$ 145.00	1175	$ 170,375.00
14	Concrete Sanitary Sewer Manholes, 48 Inch	00445	EA	$ 10,800.00	8	$ 86,400.00
15	Concrete Inlets, Standard	00470	EA	$ 3,300.00	17	$ 56,100.00
16	Concrete Storm Sewer Manholes	00470	EA	$ 8,500.00	7	$ 59,500.00
17	Concrete Manholes, Sedimentation Manhole	00470	EA	$ 10,000.00	1	$ 10,000.00
18	Drywell Facility	00470	EA	$ 35,000.00	2	$ 70,000.00
19	Concrete Pads, 6 Inch Depth	00490	SF	$ 18.00	150	$ 2,700.00
20	Field Explorations	00498	LS	$ 56,500.00	1	$ 56,500.00
	BRIDGES - BNSF BRIDGE					$ -
21	SHORING, CRIBBING, AND COFFERDAMS	00510	LS	$ 40,000.00	1	$ 40,000.00
22	STRUCTURE EXCAVATION	00510	LS	$ 324,000.00	1	$ 324,000.00
23	GRANULAR WALL BACKFILL	00510	LS	$ 110,400.00	1	$ 110,400.00
24	REINFORCEMENT, GRADE 80	00530	LB	$ 2.50	44800	$ 112,000.00
25	REINFORCEMENT, GRADE 60	00530	LB	$ 2.00	271200	$ 542,400.00
26	COATED REINFORCEMENT, GRADE 80	00530	LB	$ 4.50	900	$ 4,050.00
27	FOUNDATION CONCRETE, CLASS 4000	00540	CY	$ 1,055.00	390	$ 411,450.00
28	DECK CONCRETE, CLASS HPC4500 IC	00540	CY	$ 2,000.00	230	$ 460,000.00
29	GENERAL STRUCTURAL CONCRETE, CLASS 4000	00540	CY	$ 1,900.00	980	$ 1,862,000.00
30	SAW CUT TEXTURING	00540	SY	$ 9.00	560	$ 5,040.00
31	ARCHITECTURAL TREATMENT	00543	SY	$ 90.00	820	$ 73,800.00
32	STEEL PLATE GIRDER	00560	LS	$ 800,550.00	1	$ 800,550.00
33	BEARING DEVICES, _____ INCH WIDE, _____INCH LONG, _____INCH THICK	00582	EA	$ 2,500.00	12	$ 30,000.00
34	GRC CONDUIT SYSTEM, ___INCH DIAMETER	00583	FT	$ 50.00	176	$ 8,800.00
35	PRECOMPRESSED FOAM SILICONE JOINT SEAL	00585	LS	$ 22,960.00	1	$ 22,960.00
36	VERTICAL CONCRETE PARAPET, 42 INCH	00597	FT	$ 270.00	176	$ 47,520.00
37	ORNAMENTAL PROTECTIVE SCREENING	00587	FT	$ 360.00	176	$ 63,360.00
38	UTILITY ATTACHMENT ON STRUCTURES, _____	00589	LS	$ 15,000.00	1	$ 15,000.00
39	BRIDGE IDENTIFICATION MARKERS	00842	EA	$ 320.00	2	$ 640.00
	BRIDGES - PEDESTRIAN TUNNEL					$ -
40	Precast Reinforced Concrete Three Sided Structures	00595	FT	$ 4,200.00	91	$ 383,040.00
	BRIDGES - CANAL BRIDGE (OLD AMERICAN LANE)					$ -
41	BRIDGE REMOVAL WORK	00501	LS	$ 3,800.00	1	$ 3,800.00
42	BRIDGE DECK COLD PLANE PAVEMENT REMOVAL, 2-4 INCHES DEEP	00503	SY	$ 45.00	278	$ 12,510.00
43	TIMBER AND LUMBER	00570	MFBM	$ 10,000.00	1	$ 10,000.00
44	ROLLED WATERPROOFING MEMBRANE	00592	SF	$ 7.50	1200	$ 9,000.00
	RETAINING WALL - NORTHWEST					$ -
45	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	910	$ 31,850.00
46	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	519	$ 140,130.00
47	RETAINING WALL, MSE	0596A	SF	$ 150.00	8227	$ 1,234,050.00
48	SIDEWALK COPING	0596A	SF	$ 90.00	4931	$ 443,790.00
	RETAINING WALL - NORTHEAST, WEST OF 9TH					$ -
49	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	1280	$ 44,800.00
50	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	549.3	$ 148,311.00
51	RETAINING WALL, MSE	0596A	SF	$ 150.00	11591	$ 1,738,650.00
52	SIDEWALK COPING	0596A	SF	$ 90.00	5219	$ 469,710.00
	RETAINING WALL - NORTHEAST, EAST OF 9TH					$ -
53	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	1060	$ 37,100.00
54	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	635.6	$ 171,612.00
55	RETAINING WALL, MSE	0596A	SF	$ 150.00	9591	$ 1,438,650.00
56	SIDEWALK COPING	0596A	SF	$ 90.00	6039	$ 543,510.00
	RETAINING WALL - SOUTHWEST					$ -
57	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	840	$ 29,400.00
58	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	420	$ 113,400.00

Item No.	Description	Section	Unit	Unit Price	QTY	Total
59	RETAINING WALL, MSE	0596A	SF	$ 150.00	7562	$ 1,134,300.00
60	SIDEWALK COPING	0596A	SF	$ 90.00	3990	$ 359,100.00
	RETAINING WALL - SOUTHEAST					$ -
61	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	1300	$ 45,500.00
62	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	553	$ 149,310.00
63	RETAINING WALL, MSE	0596A	SF	$ 150.00	11719	$ 1,757,850.00
64	SIDEWALK COPING	0596A	SF	$ 90.00	5254	$ 472,860.00
65	Typical Roadway Section: 2 Lane Local to Storage Facility	-	FT	$ 444.13	150	$ 66,619.50
66	Typical Roadway Section: 9th Street	-	FT	$ 515.70	465	$ 239,800.50
67	Typical Roadway Section: 4 Lane Arterial American to curb tight east	-	FT	$ 1,090.01	316.61	$ 345,108.07
68	Typical Roadway Section: 4 Lane Arterial Curb tight to Bridge	-	FT	$ 1,049.83	196	$ 205,346.75
69	Typical Roadway Section: 5 Lane Arterial Bridge Striping	-	FT	$ 49.53	196	$ 9,726.76
70	Typical Roadway Section: 5 Lane Arterial to widening	-	FT	$ 1,090.01	411	$ 447,667.11
71	Typical Roadway Section: 5 Lane Arterial widened	-	FT	$ 1,168.84	492	$ 574,812.14
72	Typical Roadway Section: American Reconstruction	-	FT	$ 624.01	50	$ 31,200.50
73	Extra for Curb Ramps	-	EA	$ 1,150.00	10	$ 11,500.00
74	Pavement Legend, Type B-HS: Bicycle Lane Stencil	00867	EA	$ 350.00	2	$ 700.00
75	Signs, Supports, and Footings	00940	LS	$ 42,400.00	1	$ 42,400.00
76	Pedestrian Undercrossing Illumination	00970	LS	$ 48,000.00	1	$ 48,000.00
77	Reed Market Bridge Illumination	00970	LS	$ 72,000.00	1	$ 72,000.00
78	Street Lights / UT Trench / Vaults	00970	LS	$ 536,800.00	1	$ 536,800.00
79	Traffic Signal Installation, American Lane	00990	LS	$ 525,000.00	1	$ 525,000.00
80	Sewer Access Road	-	LF	$ 141.94	230	$ 32,646.20
81	Landscape & Irrigation	01040	LS	$ 282,500.00	1	$ 282,500.00
82	6 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 188.00	58	$ 10,904.00
83	8 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 210.00	60	$ 12,600.00
84	12 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 236.00	1705	$ 402,380.00
85	24 Inch steel Casing pipe	01140	FT	$ 290.00	142	$ 41,180.00
86	12 Inch Connection to 12 Inch Existing Main	01140	EA	$ 2,900.00	3	$ 8,700.00
87	8 Inch Connection to 8 Inch Existing Main	01140	EA	$ 2,486.40	1	$ 2,486.40
88	Ductile Iron Pipe Tees, 12x6 inch	01140	EA	$ 1,700.00	2	$ 3,400.00
89	Ductile Iron Pipe Bend, 12 inch	01140	EA	$ 1,200.00	3	$ 3,600.00
90	12 Inch Linear Expansion Joint	01140	EA	$ 25,000.00	2	$ 50,000.00
91	6 Inch Gate Valve	01150	EA	$ 1,628.00	3	$ 4,884.00
92	12 Inch Gate Valve	01150	EA	$ 2,408.00	1	$ 2,408.00
93	12 Inch Butterfly Valve	01150	EA	$ 2,784.00	7	$ 19,488.00
94	Water Service Piping	01170	FT	$ 171.55	80	$ 13,724.00
95	2 Inch Combination Air Release / Air Vacuum Valve Assembly	01150	EA	$ 8,194.00	2	$ 16,388.00
96	AVION - 12 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 236.00	1340	$ 316,240.00
97	AVION -Water Service Piping	01170	FT	$ 171.55	85	$ 14,581.75
98	AVION - 12 Inch Connection to Existing 12 Inch Main	01140	EA	$ 2,900.00	4	$ 11,600.00
99	AVION - 12 Inch Tees	01140	EA	$ 2,024.50	2	$ 4,049.00
100	AVION - Linear Expansion Joint	01140	EA	$ 25,000.00	2	$ 50,000.00
101	AVION - 24 Inch steel Casing pipe	01140	FT	$ 290.00	142	$ 41,180.00
102	AVION - 2 Inch Combination Air Release / Air Vacuum Valve Assembly	01150	EA	$ 8,194.00	2	$ 16,388.00
103	Hydrant Assemblies	01160	EA	$ 6,048.00	3	$ 18,144.00
Subtotal						**$ 27,329,000.00**
Engineering & Surveying	Design Engineering	-	LS	12%	1	$ 3,279,480.00
	Construction Management/Inspection	-	LS	12%	1	$ 3,279,480.00
	Engineering & Surveying Subtotal					**$ 6,558,960.00**
Right of Way	1110 Reed Market Rd					$ 3,361,275.00
	Temporary Easements					$ 500,000.00
	ROW Subtotal					**$ 3,861,275.00**
Inflation	**5% Annual Inflation, 2027 Construction**					**$ 3,869,296.59**
Contingency	**15% Contingency**					**$ 6,242,779.74**
Total without Range						**$ 47,861,311**
Class 3 Estimate Range					**-20%**	**$ (9,572,262.27)**
					30%	**$ 14,358,393.40**
Total with Range				**$ 38,289,049**	**to**	**$ 62,219,705**

- Estimate based on 2024 construction costs from similar work.

Item No.	Description	Section	Unit	Unit Price	QTY	Total
1	Mobilization	00210	LS	$ 2,797,400.00	1	$ 2,797,400.00
2	Temporary Work Zone Traffic Control, Complete	00221	LS	$ 139,900.00	1	$ 139,900.00
3	RR Requirements and Flagging	00221	LS	$ 270,000.00	1	$ 270,000.00
4	Erosion Control	00280	LS	$ 139,900.00	1	$ 139,900.00
5	Pollution Control Plan	00290	LS	$ 1,500.00	1	$ 1,500.00
6	Construction Survey Work	00305	LS	$ 419,600.00	1	$ 419,600.00
7	Removal of Structures and Obstructions	00310	LS	$ 559,500.00	1	$ 559,500.00
8	Removal of Pipes	00310	LF	$ 80.00	4340	$ 347,200.00
9	Clearing and Grubbing	00320	LS	$ 69,900.00	1	$ 69,900.00
10	Embankment in Place	00330	CY	$ 32.00	46221	$ 1,479,072.00
11	8 Inch 3034 Sanitary Sewer Pipe, 10 foot depth	00445	FT	$ 243.20	580	$ 141,056.00
12	8 Inch 3034 PVC Storm Sewer Pipe	00445	FT	$ 120.00	156	$ 18,720.00
13	8 Inch C900 Storm Sewer Pipe	00445	FT	$ 145.00	1175	$ 170,375.00
14	Concrete Sanitary Sewer Manholes, 48 Inch	00445	EA	$ 10,800.00	8	$ 86,400.00
15	Concrete Inlets, Standard	00470	EA	$ 3,300.00	17	$ 56,100.00
16	Concrete Storm Sewer Manholes	00470	EA	$ 8,500.00	7	$ 59,500.00
17	Concrete Manholes, Sedimentation Manhole	00470	EA	$ 10,000.00	1	$ 10,000.00
18	Drywell Facility	00470	EA	$ 35,000.00	2	$ 70,000.00
19	Concrete Pads, 6 Inch Depth	00490	SF	$ 18.00	150	$ 2,700.00
20	Field Explorations	00498	LS	$ 55,900.00	1	$ 55,900.00
	BRIDGES - BNSF BRIDGE					
21	SHORING, CRIBBING, AND COFFERDAMS	00510	LS	$ 40,000.00	1	$ 40,000.00
22	STRUCTURE EXCAVATION	00510	LS	$ 321,300.00	1	$ 321,300.00
23	GRANULAR WALL BACKFILL	00510	LS	$ 110,400.00	1	$ 110,400.00
24	REINFORCEMENT, GRADE 60	00530	LB	$ 2.00	244400	$ 488,800.00
25	COATED REINFORCEMENT, GRADE 60	00530	LB	$ 4.50	900	$ 4,050.00
26	FOUNDATION CONCRETE, CLASS 4000	00530	CY	$ 1,055.00	390	$ 411,450.00
27	GENERAL STRUCTURAL CONCRETE, CLASS 4000	00540	CY	$ 1,900.00	840	$ 1,596,000.00
28	ARCHITECTURAL TREATMENT	00540	SY	$ 90.00	840	$ 75,600.00
29	42 INCH PRECAST PRESTRESSED BOX BEAMS	00540	FT	$ 875.00	1663	$ 1,455,125.00
30	BEARING DEVICES, _____ INCH WIDE, _____INCH LONG, _____INCH THICK	00540	EA	$ 250.00	76	$ 19,000.00
31	GRC CONDUIT SYSTEM, ___INCH DIAMETER	00543	FT	$ 50.00	176	$ 8,800.00
32	VERTICAL CONCRETE PARAPET, 42 INCH	00560	LS	$ 270.00	176	$ 47,520.00
33	ORNAMENTAL PROTECTIVE SCREENING	00582	LS	$ 360.00	176	$ 63,360.00
34	UTILITY ATTACHMENT ON STRUCTURES, _____	00583	LS	$ 15,000.00	1	$ 15,000.00
35	ROLLED WATERPROOF MEMBRANE	00585	SF	$ 9.00	5250	$ 47,250.00
36	BRIDGE IDENTIFICATION MARKERS	00597	EA	$ 320.00	2	$ 640.00
	BRIDGES - PEDESTRIAN TUNNEL					
37	Precast Reinforced Concrete Three Sided Structures	00595	FT	$ 4,200.00	91	$ 383,040.00
	BRIDGES - CANAL BRIDGE (OLD AMERICAN LANE)					
38	Bridge Removal Work	00501	LS	$ 3,800.00	1	$ 3,800.00
39	Bridge Deck Cold Plane Pavement Removal, 2-4 Inches Deep	00503	SY	$ 45.00	278	$ 12,510.00
40	Timber and Lumber	00570	MFBM	$ 10,000.00	1	$ 10,000.00
41	Rolled Waterproofing Membrane	00592	SF	$ 7.50	1200	$ 9,000.00
	RETAINING WALL - NORTHWEST					
42	Architectural Treatment	00543	SY	$ 35.00	910	$ 31,850.00
43	Flush Mounted Combination Bridge Rail	00587	FT	$ 270.00	519	$ 140,130.00
44	Retaining Wall, MSE	0596A	SF	$ 150.00	8227	$ 1,234,050.00
45	Sidewalk Coping	0596A	SF	$ 90.00	4931	$ 443,790.00
	RETAINING WALL - NORTHEAST, WEST OF 9TH					
46	Architectural Treatment	00543	SY	$ 35.00	1280	$ 44,800.00
47	Flush Mounted Combination Bridge Rail	00587	FT	$ 270.00	549.3	$ 148,311.00
48	Retaining Wall, MSE	0596A	SF	$ 150.00	11591	$ 1,738,650.00
49	Sidewalk Coping	0596A	SF	$ 90.00	5219	$ 469,710.00
	RETAINING WALL - NORTHEAST, EAST OF 9TH					
50	Architectural Treatment	00543	SY	$ 35.00	1060	$ 37,100.00
51	Flush Mounted Combination Bridge Rail	00587	FT	$ 270.00	635.6	$ 171,612.00
52	Retaining Wall, MSE	0596A	SF	$ 150.00	9591	$ 1,438,650.00
53	Sidewalk Coping	0596A	SF	$ 90.00	6039	$ 543,510.00
	RETAINING WALL - SOUTHWEST					

Item No.	Description	Section	Unit	Unit Price	QTY	Total
54	Architectural Treatment	00543	SY	$ 35.00	840	$ 29,400.00
55	Flush Mounted Combination Bridge Rail	00587	FT	$ 270.00	430	$ 116,100.00
56	Retaining Wall, MSE	0596A	SF	$ 150.00	7562	$ 1,134,300.00
57	Sidewalk Coping	0596A	SF	$ 90.00	3990	$ 359,100.00
	RETAINING WALL - SOUTHEAST					
58	Architectural Treatment	00543	SY	$ 35.00	1300	$ 45,500.00
59	Flush Mounted Combination Bridge Rail	00587	FT	$ 270.00	553	$ 149,310.00
60	Retaining Wall, MSE	0596A	SF	$ 150.00	11719	$ 1,757,850.00
61	Sidewalk Coping	0596A	SF	$ 90.00	5254	$ 472,860.00
62	Typical Roadway Section: 2 Lane Local to Storage Facility	-	FT	$ 444.13	150	$ 66,619.50
63	Typical Roadway Section: 9th Street	-	FT	$ 515.70	465	$ 239,800.50
64	Typical Roadway Section: 4 Lane Arterial American to curb tight east	-	FT	$ 1,090.01	316.61	$ 345,108.07
65	Typical Roadway Section: 4 Lane Arterial Curb tight to Bridge	-	FT	$ 1,049.83	196	$ 205,346.75
66	Typical Roadway Section: 5 Lane Arterial Bridge Striping	-	FT	$ 49.53	196	$ 9,726.76
67	Typical Roadway Section: 5 Lane Arterial to widening	-	FT	$ 1,090.01	411	$ 447,667.11
68	Typical Roadway Section: 5 Lane Arterial widened	-	FT	$ 1,168.84	492	$ 574,812.14
69	Typical Roadway Section: American Reconstruction	-	FT	$ 624.01	50	$ 31,200.50
70	Extra for Curb Ramps	-	EA	$ 1,150.00	10	$ 11,500.00
71	Signs, supports and footings	00940	LS	$ 42,000.00	1	$ 42,000.00
72	Pedestrian Undercrossing Illumination	00970	LS	$ 48,000.00	1	$ 48,000.00
73	Reed Market Bridge Illumination	00970	LS	$ 72,000.00	1	$ 72,000.00
74	Street lights / UT Trench / Vaults	00970	LS	$ 531,500.00	1	$ 531,500.00
75	Traffic Signal Installation, American Lane	00990	LS	$ 525,000.00	1	$ 525,000.00
76	Pavement Legend, Type B-HS: Bicycle Lane Stencil	00867	EA	$ 350.00	10	$ 3,500.00
77	Sewer Access Road	-	LF	$ 141.94	230	$ 32,646.20
78	Landscape & Irrigation	01040	LS	$ 279,700.00	1	$ 279,700.00
79	6 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 188.00	58	$ 10,904.00
80	8 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 210.00	60	$ 12,600.00
79	12 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 236.00	1705	$ 402,380.00
81	24 Inch steel Casing pipe	01140	FT	$ 290.00	142	$ 41,180.00
82	12 Inch Connection to 12 Inch Existing Main	01140	EA	$ 2,900.00	3	$ 8,700.00
83	8 Inch Connection to 8 Inch Existing Main	01140	EA	$ 2,486.40	1	$ 2,486.40
82	Ductile Iron Pipe Tees, 12x6 inch	01140	EA	$ 1,700.00	2	$ 3,400.00
84	Ductile Iron Pipe Bend, 12 inch	01140	EA	$ 1,200.00	3	$ 3,600.00
85	12 Inch Linear Expansion Joint	01140	EA	$ 25,000.00	2	$ 50,000.00
86	6 Inch Gate Valve	01150	EA	$ 1,628.00	3	$ 4,884.00
85	12 Inch Gate Valve	01150	EA	$ 2,408.00	1	$ 2,408.00
87	12 Inch Butterfly Valve	01150	EA	$ 2,784.00	7	$ 19,488.00
88	Water Service Piping	01170	FT	$ 171.55	80	$ 13,724.00
89	2 Inch Combination Air Release / Air Vacuum Valve Assembly	01150	EA	$ 8,194.00	2	$ 16,388.00
88	AVION - 12 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 236.00	1340	$ 316,240.00
90	AVION -Water Service Piping	01170	FT	$ 171.55	85	$ 14,581.75
91	AVION - 12 Inch Connection to Existing 12 Inch Main	01140	EA	$ 2,900.00	4	$ 11,600.00
92	AVION - 12 Inch Tees	01140	EA	$ 2,024.50	2	$ 4,049.00
91	AVION - Linear Expansion Joint	01140	EA	$ 25,000.00	2	$ 50,000.00
93	AVION - 24 Inch steel Casing pipe	01140	FT	$ 290.00	142	$ 41,180.00
94	AVION - 2 Inch Combination Air Release / Air Vacuum Valve Assembly	01150	EA	$ 8,194.00	2	$ 16,388.00
95	Hydrant Assemblies	01160	EA	$ 6,048.00	3	$ 18,144.00
Subtotal						**$ 27,054,000.00**
Engineering & Surveying	Design Engineering	-	LS	12%	1	$ 3,246,480.00
	Construction Management/Inspection	-	LS	12%	1	$ 3,246,480.00
	Engineering & Surveying Subtotal					**$ 6,492,960.00**
Right of Way	1110 Reed Market Rd					$ 3,361,275.00
	Temporary Easements					$ 500,000.00
	ROW Subtotal					**$ 3,861,275.00**
Inflation	**5% Annual Inflation, 2027 Construction**					**$ 3,834,344.09**
Contingency	**15% Contingency**					**$ 6,186,386.86**
Total without Range						**$ 47,428,966**
Class 3 Estimate Range					**-20%**	**$ (9,485,793.19)**
					30%	**$ 14,228,689.79**
Total with Range				**$ 37,943,173**	**to**	**$ 61,657,656**

- Estimate based on 2024 construction costs from similar work.

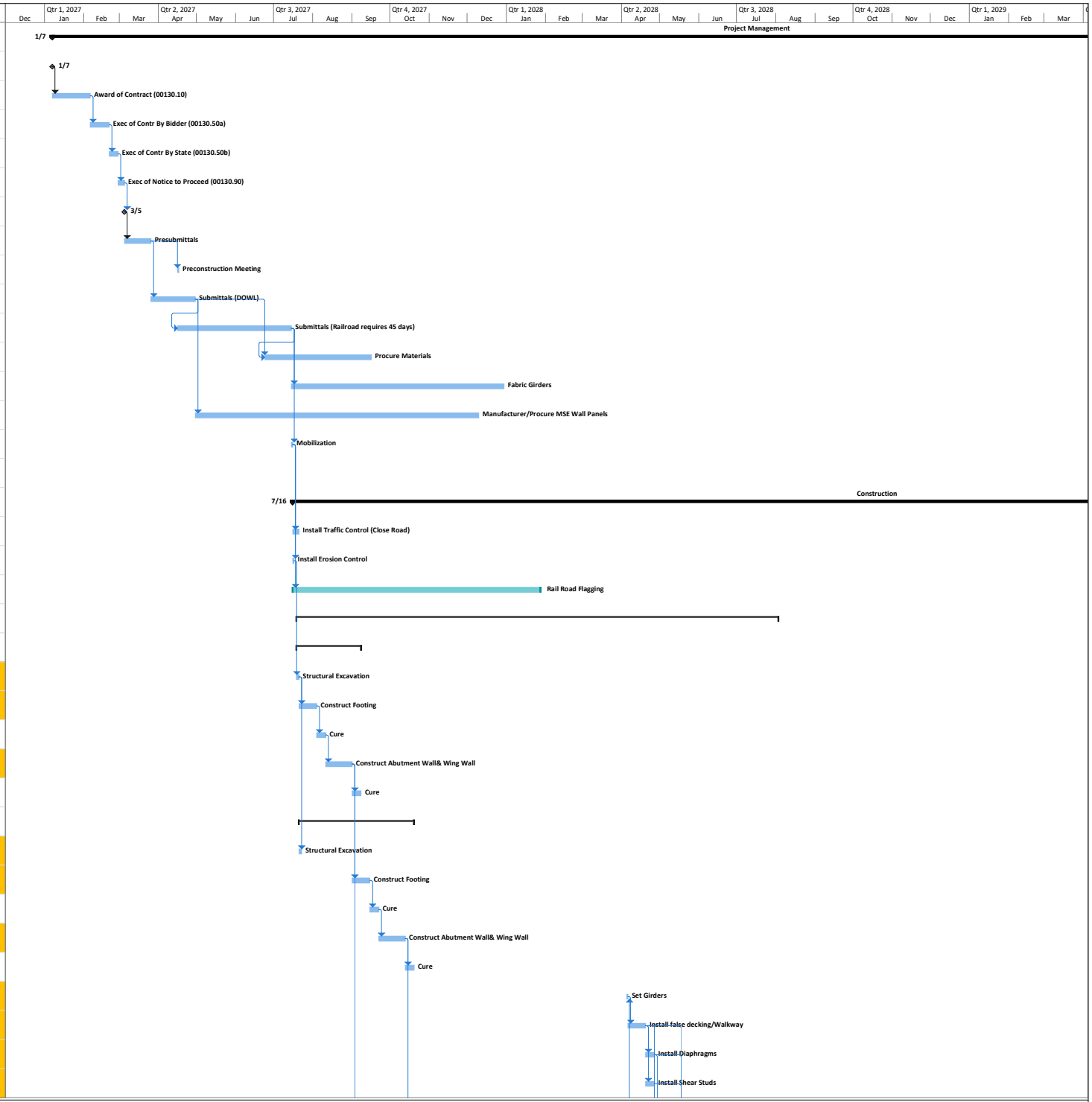
Item No.	Description	Section	Unit	Unit Price	QTY	Total
1	Mobilization	00210	LS	$ 2,709,600.00	1	$ 2,709,600.00
2	Temporary Work Zone Traffic Control, Complete	00221	LS	$ 135,500.00	1	$ 135,500.00
3	RR Requirements and Flagging	00221	LS	$ 270,000.00	1	$ 270,000.00
4	Erosion Control	00280	LS	$ 135,500.00	1	$ 135,500.00
5	Pollution Control Plan	00290	LS	$ 1,500.00	1	$ 1,500.00
6	Construction Survey Work	00305	LS	$ 406,400.00	1	$ 406,400.00
7	Removal of Structures and Obstructions	00310	LS	$ 541,900.00	1	$ 541,900.00
8	Removal of Pipes	00310	LF	$ 80.00	4340	$ 347,200.00
9	Clearing and Grubbing	00320	LS	$ 67,700.00	1	$ 67,700.00
10	Embankment in Place	00330	CY	$ 32.00	30670	$ 981,440.00
11	8 Inch 3034 Sanitary Sewer Pipe, 10 Foot Depth	00445	FT	$ 243.20	237	$ 57,638.40
12	8 Inch 3034 PVC Storm Sewer Pipe	00445	FT	$ 120.00	160	$ 19,200.00
13	8 Inch C900 Storm Sewer Pipe	00445	FT	$ 145.00	1175	$ 170,375.00
14	Concrete Sanitary Sewer Manholes, 48 Inch	00445	EA	$ 10,800.00	2	$ 21,600.00
15	Concrete Inlets, Standard	00470	EA	$ 3,300.00	17	$ 56,100.00
16	Concrete Storm Sewer Manholes	00470	EA	$ 8,500.00	7	$ 59,500.00
17	Concrete Manholes, Sedimentation Manhole	00470	EA	$ 10,000.00	1	$ 10,000.00
18	Drywell Facility	00470	EA	$ 35,000.00	2	$ 70,000.00
19	Concrete Pads, 6 Inch Depth	00490	SF	$ 18.00	150	$ 2,700.00
20	Field Explorations	00498	LS	$ 54,200.00	1	$ 54,200.00
	BRIDGES - BNSF BRIDGE					$ -
21	SHORING, CRIBBING, AND COFFERDAMS	00510	LS	$ 40,000.00	1	$ 40,000.00
22	STRUCTURE EXCAVATION	00510	LS	$ 321,300.00	1	$ 321,300.00
23	GRANULAR WALL BACKFILL	00510	LS	$ 110,400.00	1	$ 110,400.00
24	REINFORCEMENT, GRADE 80	00530	LB	$ 2.50	272000	$ 680,000.00
25	REINFORCEMENT, GRADE 60	00530	LB	$ 2.00	73800	$ 147,600.00
26	COATED REINFORCEMENT, GRADE 80	00530	LB	$ 4.50	1500	$ 6,750.00
27	FOUNDATION CONCRETE, CLASS 4000	00540	CY	$ 1,055.00	390	$ 411,450.00
28	DECK CONCRETE, CLASS HPC4500 IC	00540	CY	$ 2,000.00	370	$ 740,000.00
29	GENERAL STRUCTURAL CONCRETE, CLASS 4000	00540	CY	$ 1,900.00	980	$ 1,862,000.00
30	SAW CUT TEXTURING	00540	SY	$ 9.00	920	$ 8,280.00
31	ARCHITECTURAL TREATMENT	00543	SY	$ 90.00	840	$ 75,600.00
32	STEEL PLATE GIRDER	00560	LS	$ 1,836,000.00	1	$ 1,836,000.00
33	BEARING DEVICES, _____ INCH WIDE, _____INCH LONG, _____INCH THICK	00582	EA	$ 2,500.00	12	$ 30,000.00
34	GRC CONDUIT SYSTEM, ___INCH DIAMETER	00583	FT	$ 50.00	288	$ 14,400.00
35	PRECOMPRESSED FOAM SILICONE JOINT SEAL	00585	LS	$ 22,960.00	1	$ 22,960.00
36	VERTICAL CONCRETE PARAPET, 42 INCH	00597	FT	$ 550.00	288	$ 158,400.00
37	ORNAMENTAL PROTECTIVE SCREENING	00587	FT	$ 360.00	288	$ 103,680.00
38	UTILITY ATTACHMENT ON STRUCTURES, _____	00589	LS	$ 15,000.00	1	$ 15,000.00
39	BRIDGE IDENTIFICATION MARKERS	00842	EA	$ 320.00	2	$ 640.00
	BRIDGES - PEDESTRIAN TUNNEL					$ -
40	PRECAST REINFORCED CONCRETE THREE SIDED STRUCTURES	00595	FT	$ 4,200.00	91	$ 383,040.00
	BRIDGES - CANAL BRIDGE (OLD AMERICAN LANE)					$ -
41	BRIDGE REMOVAL WORK	00501	LS	$ 3,800.00	1	$ 3,800.00
42	BRIDGE DECK COLD PLANE PAVEMENT REMOVAL, 2-4 INCHES DEEP	00503	SY	$ 45.00	278	$ 12,510.00
43	TIMBER AND LUMBER	00570	MFBM	$ 10,000.00	1	$ 10,000.00
44	ROLLED WATERPROOFING MEMBRANE	00592	SF	$ 7.50	1,200	$ 9,000.00
	RETAINING WALL - NORTHWEST					$ -
45	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	840	$ 29,400.00
46	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	516	$ 139,320.00
47	RETAINING WALL, MSE	0596A	SF	$ 150.00	7,642	$ 1,146,300.00
48	SIDEWALK COPING	0596A	SF	$ 90.00	4,902	$ 441,180.00
	RETAINING WALL - NORTHEAST					$ -
49	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	1,570	$ 54,950.00
50	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	499	$ 134,730.00
51	RETAINING WALL, MSE	0596A	SF	$ 150.00	14,182	$ 2,127,300.00
52	SIDEWALK COPING	0596A	SF	$ 90.00	4,741	$ 426,690.00
	RETAINING WALL - SOUTHWEST					$ -
53	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	770	$ 26,950.00
54	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	418	$ 112,860.00
55	RETAINING WALL, MSE	0596A	SF	$ 150.00	6969	$ 1,045,350.00
56	SIDEWALK COPING	0596A	SF	$ 90.00	3971	$ 357,390.00
	RETAINING WALL - SOUTHEAST					$ -
57	ARCHITECTURAL TREATMENT	00543	SY	$ 35.00	1480	$ 51,800.00
58	FLUSH MOUNTED COMBINATION BRIDGE RAIL	00587	FT	$ 270.00	503	$ 135,810.00
59	RETAINING WALL, MSE	0596A	SF	$ 150.00	13344	$ 2,001,600.00
60	SIDEWALK COPING	0596A	SF	$ 90.00	4779	$ 430,110.00
61	Typical Roadway Section: 2 Lane Local to Storage Facility	-	FT	$ 444.13	150	$ 66,619.50
62	9th Street Dead End	-	FT	$ 135,000.00	1	$ 135,000.00
63	Typical Roadway Section: 4 Lane Arterial American to curb tight east	-	FT	$ 1,090.01	316.61	$ 345,108.07

Item No.	Description	Section	Unit	Unit Price	QTY	Total
64	Typical Roadway Section: 4 Lane Arterial Curb tight to Bridge	-	FT	$ 1,049.83	196	$ 205,346.75
65	Typical Roadway Section: 5 Lane Arterial Bridge Striping	-	FT	$ 49.53	196	$ 9,726.76
66	Typical Roadway Section: 5 Lane Arterial to widening	-	FT	$ 1,090.01	411	$ 447,667.11
67	Typical Roadway Section: 5 Lane Arterial widened	-	FT	$ 1,168.84	492	$ 574,812.14
68	Typical Roadway Section: American Reconstruction	-	FT	$ 624.01	50	$ 31,200.50
69	Extra for Curb Ramps	-	EA	$ 1,150.00	10	$ 11,500.00
70	Pavement Legend, Type B-HS: Bicycle Lane Stencil	00867	EA	$ 350.00	2	$ 700.00
71	Signs, Supports, and Footings	00940	LS	$ 40,600.00	1	$ 40,600.00
72	Pedestrian Undercrossing Illumination	00970	LS	$ 48,000.00	1	$ 48,000.00
73	Reed Market Bridge Illumination	00970	LS	$ 88,000.00	1	$ 88,000.00
74	Street Lights / UT Trench / Vaults	00970	LS	$ 514,800.00	1	$ 514,800.00
75	Traffic Signal Installation, American Lane	00990	LS	$ 525,000.00	1	$ 525,000.00
76	Storage Pond, 9th Street	01011	LS	$ 150,000.00	1	$ 150,000.00
77	Landscape & Irrigation	01040	LS	$ 271,000.00	1	$ 271,000.00
78	Utility Attachment on Structures	01140	LS	$ 62,000.00	1	$ 62,000.00
79	6 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 188.00	58	$ 10,904.00
80	8 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 210.00	60	$ 12,600.00
81	12 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 236.00	1705	$ 402,380.00
82	24 Inch steel Casing pipe	01140	FT	$ 290.00	142	$ 41,180.00
83	12 Inch Connection to 12 Inch Existing Main	01140	EA	$ 2,900.00	3	$ 8,700.00
84	8 Inch Connection to 8 Inch Existing Main	01140	EA	$ 2,486.40	1	$ 2,486.40
85	Ductile Iron Pipe Tees, 12x6 inch	01140	EA	$ 1,700.00	2	$ 3,400.00
86	Ductile Iron Pipe Bend, 12 inch	01140	EA	$ 1,200.00	3	$ 3,600.00
87	12 Inch Linear Expansion Joint	01140	EA	$ 25,000.00	2	$ 50,000.00
88	6 Inch Gate Valve	01150	EA	$ 1,628.00	3	$ 4,884.00
89	12 Inch Gate Valve	01150	EA	$ 2,408.00	1	$ 2,408.00
90	12 Inch Butterfly Valve	01150	EA	$ 2,784.00	7	$ 19,488.00
91	Water Service Piping	01170	FT	$ 171.55	80	$ 13,724.00
92	2 Inch Combination Air Release / Air Vacuum Valve Assembly	01150	EA	$ 8,194.00	2	$ 16,388.00
93	AVION - 12 Inch Ductile Iron Pipe with Restrained Joints and Class B Backfill	01140	FT	$ 236.00	1340	$ 316,240.00
94	AVION -Water Service Piping	01170	FT	$ 171.55	85	$ 14,581.75
95	AVION - 12 Inch Connection to Existing 12 Inch Main	01140	EA	$ 2,900.00	4	$ 11,600.00
96	AVION - 12 Inch Tees	01140	EA	$ 2,024.50	2	$ 4,049.00
97	AVION - Linear Expansion Joint	01140	EA	$ 25,000.00	2	$ 50,000.00
98	AVION - 24 Inch steel Casing pipe	01140	FT	$ 290.00	142	$ 41,180.00
99	AVION - 2 Inch Combination Air Release / Air Vacuum Valve Assembly	01150	EA	$ 8,194.00	2	$ 16,388.00
100	Hydrant Assemblies	01160	EA	$ 6,048.00	3	$ 18,144.00
Subtotal						**$ 26,374,000.00**
Engineering & Surveying	Design Engineering	-	LS	12%	1	$ 3,164,880.00
	Construction Management/Inspection	-	LS	12%	1	$ 3,164,880.00
	Engineering & Surveying Subtotal					**$ 6,329,760.00**
Right of Way	1110 Reed Market Rd					$ 3,361,275.00
	Temporary Easements					$ 500,000.00
	ROW Subtotal					**$ 3,861,275.00**
Inflation	**5% Annual Inflation, 2027 Construction**					**$ 3,747,916.09**
Contingency	**15% Contingency**					**$ 6,046,942.66**
Total without Range						**$ 46,359,894**
Class 3 Estimate Range					**-20%**	**$ (9,271,978.75)**
					30%	**$ 13,907,968.13**
Total with Range				**$ 37,087,915**	**to**	**$ 60,267,862**

- Estimate based on 2024 construction costs from similar work.

APPENDIX 3: CONSTRUCTION TIME ESTIMATES

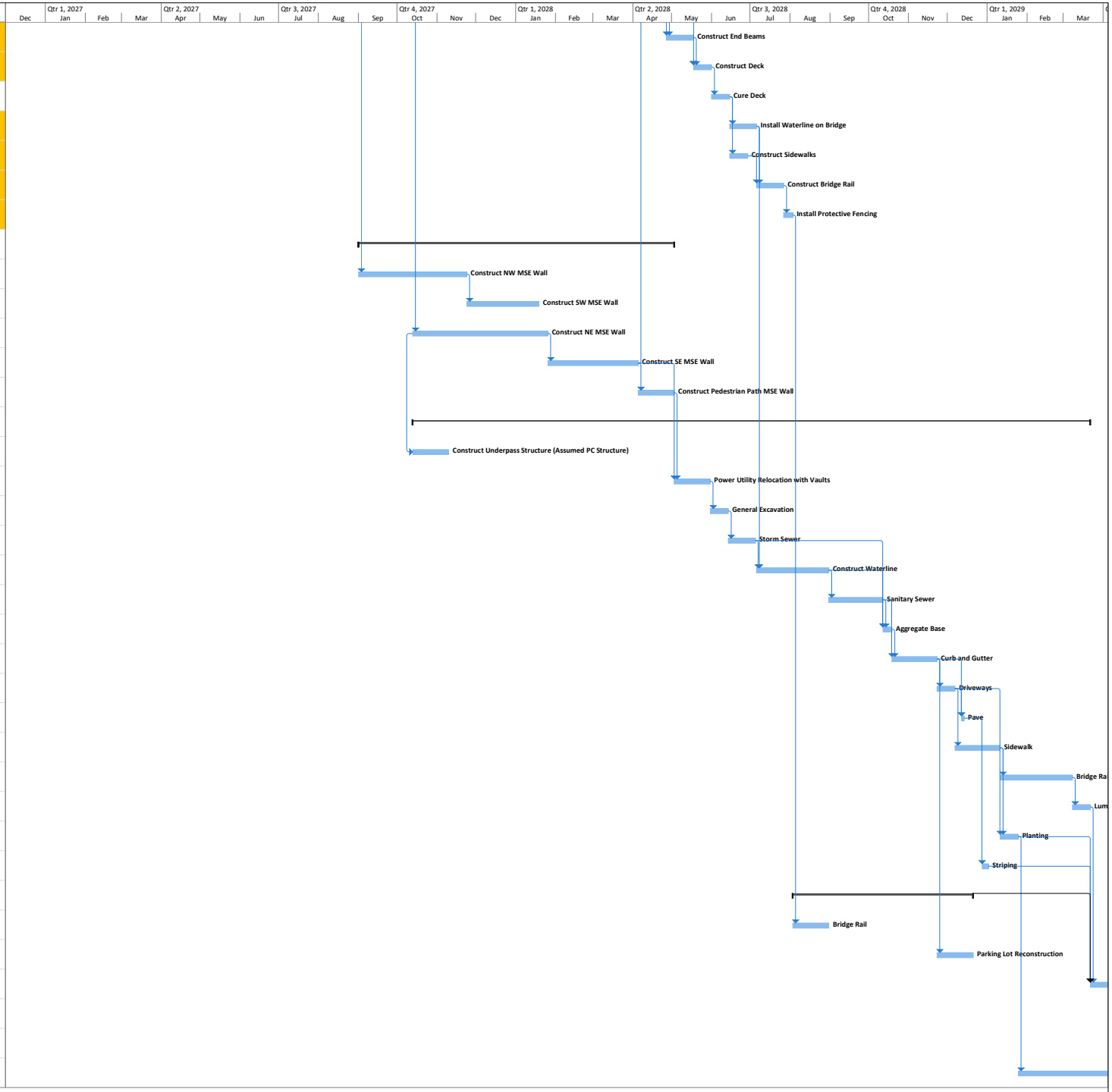
ID	Task Name	Duration	Start	Finish	Predecess	Resource Names	Text1
1	**Project Management**	**796 days**	**Thu 1/7/27**	**Thu 1/24/30**		**Project Management**	
2	Bid Project	0 days	Thu 1/7/27	Thu 1/7/27		Bid Project	
3	Award of Contract (00130.10)	30 edays	Thu 1/7/27	Sat 2/6/27	2	Award of Contract (00130.10)	
4	Exec of Contr By Bidder (00130.50a)	15 edays	Sat 2/6/27	Sun 2/21/27	3	Exec of Contr By Bidder (00130.50a)	
5	Exec of Contr By State (00130.50b)	7 edays	Sun 2/21/27	Sun 2/28/27	4	Exec of Contr By State (00130.50b)	
6	Exec of Notice to Proceed (00130.90)	5 edays	Sun 2/28/27	Fri 3/5/27	5	Exec of Notice to Proceed (00130.90)	
7	NTP	0 edays	Fri 3/5/27	Fri 3/5/27	6	NTP	
8	Presubmittals	15 days	Fri 3/5/27	Thu 3/25/27	7	Presubmittals	
9	Preconstruction Meeting	1 day	Fri 4/16/27	Fri 4/16/27	8FS+15 days	Preconstruction Meeting	
10	Submittals (DOWL)	25 days	Fri 3/26/27	Thu 4/29/27	8	Submittals (DOWL)	
11	Submittals (Railroad requires 45 days)	90 edays	Fri 4/16/27	Thu 7/15/27	10FS-10 days	Submittals (Railroad requires 45 days)	
12	Procure Materials	60 days	Thu 6/24/27	Wed 9/15/27	11FS-15 days,10FS days	Procure Materials	
13	Fabric Girders	120 days	Thu 7/15/27	Wed 12/29/27	11	Fabric Girders	
14	Manufacturer/Procure MSE Wall Panels	160 days	Fri 4/30/27	Thu 12/9/27	10	Manufacturer/Procure MSE Wall Panels	
15	Mobilization	1 day	Thu 7/15/27	Thu 7/15/27	11	Mobilization	
16							
17	**Construction**	**660 days**	**Fri 7/16/27**	**Thu 1/24/30**		**Construction**	
18	Install Traffic Control (Close Road)	3 days	Fri 7/16/27	Tue 7/20/27	15	Install Traffic Control (Close Road)	
19	Install Erosion Control	1 day	Fri 7/16/27	Fri 7/16/27	15	Install Erosion Control	
20	Rail Road Flagging	140 days	Fri 7/16/27	Thu 1/27/28	15	Rail Road Flagging	
21	**Bridge**	**273 days**	**Mon 7/19/27**	**Wed 8/2/28**		**Bridge**	
22	**Bent 1**	**37 days**	**Mon 7/19/27**	**Tue 9/7/27**		**Bent 1**	
23	Structural Excavation	2 days	Mon 7/19/27	Tue 7/20/27	19	Structural Excavation	RR Flagging
24	Construct Footing	10 days	Wed 7/21/27	Tue 8/3/27	23	Construct Footing	RR Flagging
25	Cure	7 edays	Tue 8/3/27	Tue 8/10/27	24	Cure	
26	Construct Abutment Wall & Wing Wall	15 days	Wed 8/11/27	Tue 8/31/27	25	Construct Abutment Wall& Wing Wall	RR Flagging
27	Cure	7 edays	Tue 8/31/27	Tue 9/7/27	26	Cure	
28	**Bent 2**	**65 days**	**Wed 7/21/27**	**Tue 10/19/27**		**Bent 2**	
29	Structural Excavation	2 days	Wed 7/21/27	Thu 7/22/27	23	Structural Excavation	RR Flagging
30	Construct Footing	10 days	Wed 9/1/27	Tue 9/14/27	26	Construct Footing	RR Flagging
31	Cure	7 edays	Tue 9/14/27	Tue 9/21/27	30	Cure	
32	Construct Abutment Wall & Wing Wall	15 days	Wed 9/22/27	Tue 10/12/27	31	Construct Abutment Wall& Wing Wall	RR Flagging
33	Cure	7 edays	Tue 10/12/27	Tue 10/19/27	32	Cure	
34	Set Girders	1 day	Wed 4/5/28	Wed 4/5/28	49	Set Girders	RR Flagging
35	Install false decking/Walkway	10 days	Thu 4/6/28	Wed 4/19/28	34	Install false decking/Walkway	RR Flagging
36	Install Diaphragms	5 days	Thu 4/20/28	Wed 4/26/28	35	Install Diaphragms	RR Flagging
37	Install Shear Studs	5 days	Thu 4/20/28	Wed 4/26/28	35	Install Shear Studs	RR Flagging



Project: Reed Market Bridge- Alt 1
Date: Fri 5/30/25

Task
Split
Milestone
Summary
Project Summary
External Tasks
External Milestone
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
Deadline
Progress
Manual Progress

ID	Task Name	Duration	Start	Finish	Predecess	Resource Names	Text1
38	Construct End Beams	15 days	Thu 4/27/28	Wed 5/17/28	36,35	Construct End Beams	RR Flagging
39	Construct Deck	10 days	Thu 5/18/28	Wed 5/31/28	38,37,36,	Construct Deck	RR Flagging
40	Cure Deck	14 edays	Wed 5/31/28	Wed 6/14/28	39	Cure Deck	
41	Install Waterline on Bridge	15 days	Thu 6/15/28	Wed 7/5/28	40	Install Waterline on Bridge	RR Flagging
42	Construct Sidewalks	10 days	Thu 6/15/28	Wed 6/28/28	40	Construct Sidewalks	RR Flagging
43	Construct Bridge Rail	15 days	Thu 7/6/28	Wed 7/26/28	42,41	Construct Bridge Rail	RR Flagging
44	Install Protective Fencing	5 days	Thu 7/27/28	Wed 8/2/28	43	Install Protective Fencing	RR Flagging
45	**Retaining Walls**	**175 days**	**Wed 9/1/27**	**Tue 5/2/28**		**Retaining Walls**	
46	Construct NW MSE Wall	60 days	Wed 9/1/27	Tue 11/23/27	26	Construct NW MSE Wall	
47	Construct SW MSE Wall	40 days	Wed 11/24/27	Tue 1/18/28	46	Construct SW MSE Wall	
48	Construct NE MSE Wall	75 days	Wed 10/13/27	Tue 1/25/28	32	Construct NE MSE Wall	
49	Construct SE MSE Wall	50 days	Wed 1/26/28	Tue 4/4/28	48	Construct SE MSE Wall	
50	Construct Pedestrian Path MSE Wall	20 days	Wed 4/5/28	Tue 5/2/28	49	Construct Pedestrian Path MSE Wall	
51	**Roadway**	**376 days**	**Wed 10/13/27**	**Wed 3/21/29**		**Roadway**	
52	Construct Underpass Structure (Assumed PC Structure)	20 days	Wed 10/13/27	Tue 11/9/27	48SS	Construct Underpass Structure (Assumed PC Structure)	
53	Power Utility Relocation with Vaults	20 days	Wed 5/3/28	Tue 5/30/28	50,49	Power Utility Relocation with Vaults	
54	General Excavation	10 days	Wed 5/31/28	Tue 6/13/28	53	General Excavation	
55	Storm Sewer	15 days	Wed 6/14/28	Tue 7/4/28	54	Storm Sewer	
56	Construct Waterline	40 days	Thu 7/6/28	Wed 8/30/28	55,41	Construct Waterline	
57	Sanitary Sewer	30 days	Thu 8/31/28	Wed 10/11/28	56	Sanitary Sewer	
58	Aggregate Base	5 days	Thu 10/12/28	Wed 10/18/28	56,55,57	Aggregate Base	
59	Curb and Gutter	25 days	Thu 10/19/28	Wed 11/22/28	58,57	Curb and Gutter	
60	Driveways	10 days	Thu 11/23/28	Wed 12/6/28	59	Driveways	
61	Pave	2 days	Tue 12/12/28	Wed 12/13/28	60FS+3 days,59FS	Pave	
62	Sidewalk	25 days	Thu 12/7/28	Wed 1/10/29	60	Sidewalk	
63	Bridge Rail	40 days	Thu 1/11/29	Wed 3/7/29	62	Bridge Rail	
64	Luminaire	10 days	Thu 3/8/29	Wed 3/21/29	63	Luminaire	
65	Planting	10 days	Thu 1/11/29	Wed 1/24/29	60,62	Planting	
66	Striping	3 days	Thu 12/28/28	Mon 1/1/29	61FS+10 days	Striping	
67	**Old American Lane Work**	**100 days**	**Thu 8/3/28**	**Wed 12/20/28**		**Old American Lane Work**	
68	Bridge Rail	20 days	Thu 8/3/28	Wed 8/30/28	44	Bridge Rail	
69	Parking Lot Reconstruction	20 days	Thu 11/23/28	Wed 12/20/28	59	Parking Lot Reconstruction	
70	Punchlist	10 days	Thu 3/22/29	Wed 4/4/29	66,67,64,(	PUNCHLIST	
71	Float	57 edays	Wed 4/4/29	Thu 5/31/29	70	Float	
72	Completion Date	0 days	Thu 5/31/29	Thu 5/31/29	71	Completion Date	
73	Plant Establishment	365 edays	Wed 1/24/29	Thu 1/24/30	65	Plant Establishment	



Project: Reed Market Bridge- Alt 1
Date: Fri 5/30/25

Task | Split | Milestone | Summary | Project Summary | External Tasks | External Milestone | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | Deadline | Progress | Manual Progress

APPENDIX 4:
DRAFT TRANSPORTATION ANALYSIS MEMO

KITTELSON & ASSOCIATES
1001 SW Emkay Drive, Suite 140
Bend, OR 97702

TECHNICAL MEMORANDUM

May 5, 2025 Project# 30457

To: Sinclair Burr

From: Matt Kittelson, PE; Cameron Thompson, Julia Kuhn, PE, and Megan Mannion, Kittelson & Associates
Nick Robertson, PE, Courtney Davis, PE, and Justin Mason PE, DBIA, DOWL

Project: Reed Market Crossing Study

Subject: Transportation Analysis Memorandum

In 2020, Bend voters approved the Transportation General Obligation (GO) Bond to provide funding for changes to the transportation system that can help improve traffic flow, strengthen east-west connections, and address neighborhood safety and livability. Changes to the SE Reed Market Road corridor were identified by voters as one of the top priorities for City funding. In January 2025, the City was selected to receive $32.3 million in federal funding to help construct the SE Reed Market Road bridge over the existing railroad tracks to improve pedestrian, vehicle and bicycle travel in this important corridor for the City. The enclosed memo summarizes information on existing intersections along the corridor that may be changed and/or closed as part of the new crossing construction and how those changes may affect the travel choices made by people driving, riding bikes, taking transit and walking along and to/from the corridor. As described herein, the evaluation revealed the following:

- The existing traffic volumes and speeds along the corridor are consistent with the classification of SE Reed Market Road as an arterial. Year 2045 traffic volumes are also consistent with the arterial classification.
- Today, all of the intersections operate acceptably. In the future, the intersections of SE 9th Street/Reed Market Road and SE 15th Street/SE Reed Market Road are shown to exceed City's standards with the proposed lane configuration changes.
- Pedestrian and bicycle connections will be maintained at the study intersections but may require out of direction travel due to crossing grades and available space at the intersections. In addition, SE 9th Street in the study area is part of the identified low stress bicycle network within the City. To accommodate for this, a connection will be provided between SE 9th Street and SE Reed Market Road.
- Based on current bridge design alternatives, the SE 9th Street intersection with SE Reed Market Road is being evaluated as either a right-in, right-out configuration, right-in, right-out, left-in configuration, or a full closure in the future. The effects of the three options are presented within this memorandum.
- A full closure at SE 9th Street/SE Reed Market Road will divert north-south traffic to SE 3rd Street and SE 15th Street, while the right-in right-out and right-in, right-out, left-in scenarios at SE 9th Street/SE Reed Market Road will create less diverted trips.
- As part of the crossing design, the SE Quill Place intersection with SE Reed Market Road would need to be closed given its proximity to the rail crossing. Although the closure of this intersection will not significantly affect travel on SE Reed Market Road, it will result in approximately one-quarter mile

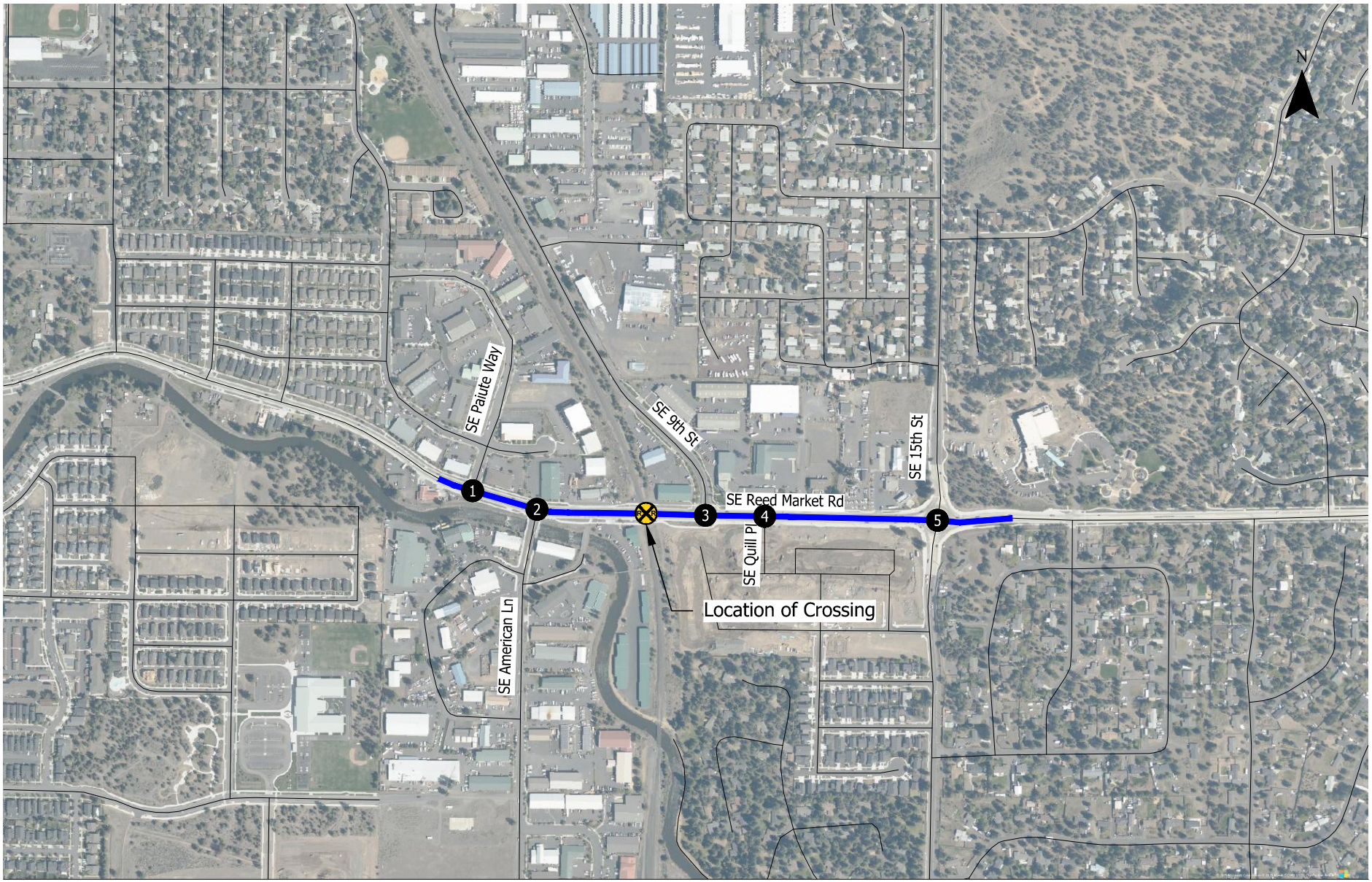
out of direction travel for people traveling by car. However, access for pedestrians and cyclists will still be maintained at SE Quill Place, ensuring continued connectivity for non-motorized traffic.

- Emergency vehicle travel will be affected by any future closure scenario at SE 9th Street/SE Reed Market Road. Similar to the diverted trips, the right-in right-out and right-in, right-out, left-in scenarios would have less effect on out of direction travel for emergency vehicles.
- Vehicular, walking, and biking detours during the construction of the crossing will need to be evaluated along Reed Market Road and the adjacent north-south corridors, such as SE 3rd Street and SE 5th Street. A primary factor will be whether or how connections can be maintained during construction at SE Paiute Lane, SE American Lane, and SE 9th Street. Intersection and corridor improvements to the surrounding network, including roundabout projects at SE 15th Street/SE Reed Market Road and SE 15th Street/SE Ferguson Road, are expected to be in place prior to the temporary closure of SE Reed Market Road during construction.

Project Background

SE Reed Market Road is a primary east-west arterial within the City of Bend and is the southern-most of the eight vehicular Deschutes River crossings within City limits. Between SE American Lane and SE 9th Street, SE Reed Market Road crosses the Burlington Northern Santa Fe (BNSF) railroad track at a location immediately north of a switching yard. Currently, up to 6 – 8 trains per day cross at this location. The combined activity of the train crossings and the operations at the switching yard that have the trains dwelling on the tracks can cause up to 20 minutes of delay for people traveling by foot, bike, transit, private vehicles, freight and emergency service vehicles along the corridor at this location. To provide more travel time reliability, the Bend Transportation System Plan (TSP) identifies the need for a grade-separated crossing of the BNSF railroad at this location. The GO Bond funding, in combination with The Federal Railroad Administration (FRA) Railroad Crossing Elimination (RCE) grant money, are intended to provide the City with the funding to design and construct the grade-separated rail crossing and associated changes to the SE Reed Market Road corridor in the next 3-5 years.

For context, the location of the existing at-grade rail crossing and the adjacent intersections are shown in Figure 1. The figure also identifies the intersections where operational and safety evaluation were performed to help inform the corridor design considerations. One of the key topics addressed herein relates to the trade-offs associated with limiting the existing SE 9th Street/SE Reed Market Road intersection to right-in, right-out movements or right-in, right-out, left-in movements versus closing it completely. Due to the railroad bridge design needs (height over tracks, permissible slopes, and returning to grade prior to American lane and 15th Street), maintaining full movements at this intersection as well as Quill Place when the crossing is built is infeasible.



Study Corridor

Study Intersections

Reed Market Road Study Area Map
Bend, OR

Figure
1

H:\30\30457 - Reed Market Overcrossing Study\report\figs\dwg\30457_Reed Market Overcrossing_Figures.dwg May 02, 2025 - 9:31am - cthompson Layout Tab: Corridor Map

KITTELSON & ASSOCIATES

The remainder of this memo provides information about the following topics:

- Existing vehicle, pedestrian and bicycle usage in the corridor based on volume counts recorded in 2024;
- Evaluation of the most-recent five year crash experience at the study intersections;
- Forecasts of future traffic volumes in the year 2045 assuming right-in, right-right out (RIRO) movements only, right-in, right-out, left-in (RIROLI) movements only versus the closure of the SE 9th Street intersection;
- Performance of the study intersections relative to City standards under existing and year 2045 conditions as a RIRO, RIROLI, versus the full closure of the SE 9th Street intersection;
- Potential changes to vehicular routing if SE 9th Street is closed at SE Reed Market Road and the impacts of those changes to other nearly street corridors;
- Changes to the vehicular access to the land uses along SE 9th Street, SE Quill Place and SE American Lane associated with the grade-separated rail crossing;
- Emergency vehicle access considerations; and,
- Conclusions and primary considerations for future evaluation.

Existing Travel Patterns in the Corridor

SE Reed Market Road plays an important role within the City's transportation system in the movement of people, goods, freight as well as providing access to the BNSF switching yards, adjacent neighborhoods and adjacent businesses. As noted above, 6 – 8 trains cross SE Reed Market Road at the rail crossing and the combination of the crossings and the switching yard operations can cause up to 20 minutes of delay at various times of the day to people and freight traveling along the street today.

The existing development and roadway network surrounding the rail crossing along SE Reed Market Road, SE 9th Street, SE 15th Street, and SE Wilson Ave don't meet current city standards for block lengths and lack a "grid" street layout. As a result, circulation route options for all users are reliant on the streets that do exist, including the SE 9th Street connection to SE Reed Market Road.

Existing CET bus routes travel along SE 15th Street and SE Reed Market Road east of SE 15th Street. There are no bus routes along SE Paiute Way, SE American Lane, SE 9th Street, and SE Reed Market Road west of 15th Street in the study area.

To help inform the evaluation of the potential changes to the corridor and the existing intersections along it, the following information was collected in September 2024 while local schools were in-session:

- Hourly traffic volumes and speeds over a 24-hour period, including by type of vehicle, as measured along SE Reed Market Road between SE 9th Street and SE American Lane;
- Intersection turning movement counts as well as pedestrian and bicycle crossings at the five study locations during the weekday PM peak period; and,
- Hourly pedestrian and bicycle volumes over a 24-hour period along the shared use path on the southside of SE Reed Market Road at a location between the rail crossing and SE 9th Street.

A summary of the existing daily vehicular multimodal travel, as collected in September 2024, is provided below.

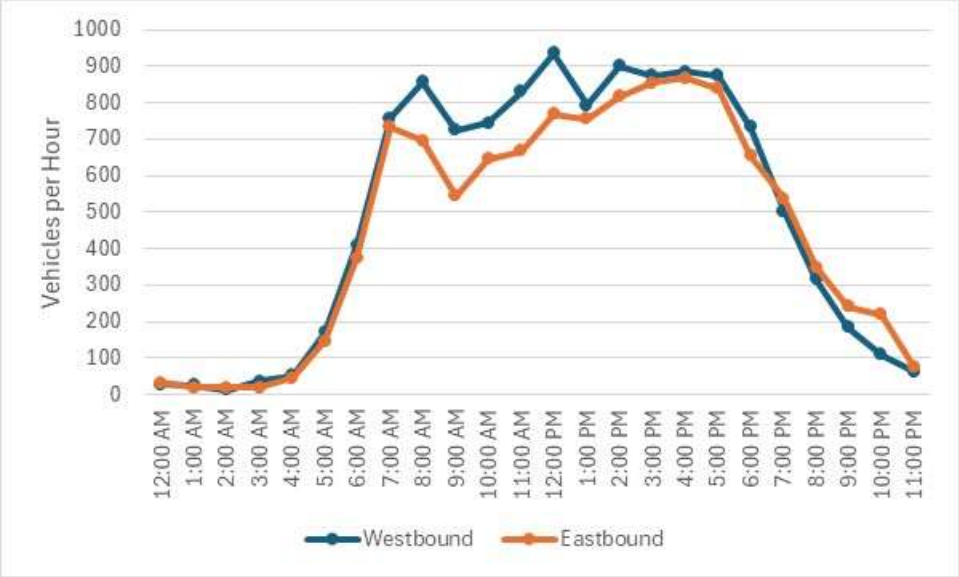
Table 1 presents the summary of the 24-hour vehicular travel characteristics. In total, approximately 22,750 vehicles travel across the rail tracks along SE Reed Market Road today, which is consistent with the arterial designation and is nearing capacity for a 3-lane section. We also note that the existing posted speed is 35 miles per hour and the 85th percentile vehicles in each direction is within 5 miles per hour of the posted speed, which generally indicates that the travel speeds are consistent with the street's intended function and design. Heavy vehicles percentages are shown to be within the typical range of 2-5%.

Table 1: 24-hour Vehicular Volume Summary

Direction	Volume (vehicles per day)	85th Percentile Speed	Heavy Vehicle (%)
Westbound	11,816	33 MPH	2.8%
Eastbound	10,928	39 MPH	5.0%
Both Directions	22,744	37 MPH	3.9%

Exhibit 1 shows the variation, by hour, in the hourly traffic volumes as measured in September 2024.

Exhibit 1. Hourly Traffic Volumes on SE Reed Market Road



The weekday PM peak hour volumes at the study intersections are presented in the next section of the report.

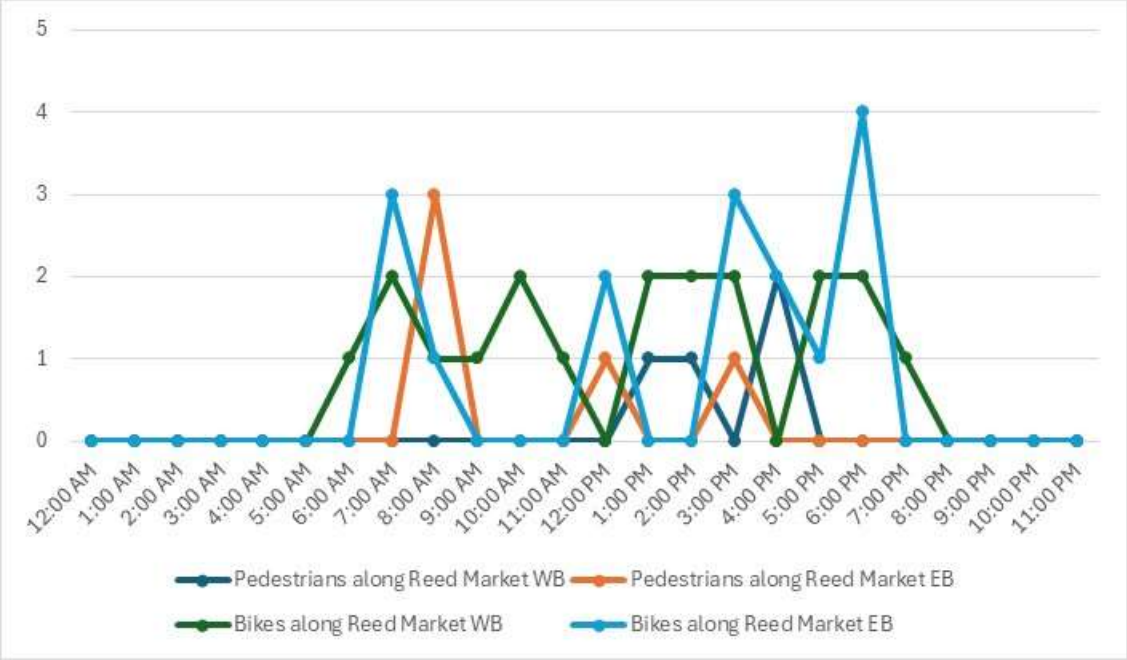
In addition to the vehicular characteristics, we note that the 24-hour volume counts along the shared use path on the southside of SE Reed Market Road revealed the following:

- 9 through pedestrians were recorded over the course of the day;
- 7 people walking were recorded to/from the north-south pathway just east of the rail tracks;

- 35 through cyclists were recorded over the course of the day; and,
- 7 people riding bikes were recorded to/from the north-south pathway just east of the rail tracks.

For reference, Exhibit 2 shows the hourly variation of through pedestrians and bicyclists as measured in September 2024.

Exhibit 2. Hourly Pedestrians and Cyclists Traveling Through on SE Reed Market Road



Today, the north-south pathway is utilized by neighbors to the south and those traveling east-west along the Reed Market Road corridor. In the future, the pathway to the south may extend southeasterly to the SE 15th Street corridor as part of a Bend Parks & Recreation District (BPRD) project. In addition, the City is pursuing the ongoing Bend Bikeway Project, which would construct a continuous multi-use path along SE 15th Street (which the future BPRD path would connect to) and aims to establish continuous north-south and east-west bicycle corridors through the community. Additionally, the City is building a shared use path on SE 9th Street to connect the planned bikeway route to the areas south of and along SE Reed Market Road to jobs, services, schools, and parks. The information collected in 2024 can help provide a comparison of usage once both projects are implemented.

Existing pedestrian facilities in the study area consist of sidewalks on both sides of the study roadways and the previously mentioned pathway on the south side of SE Reed Market Road. Bicycle facilities are provided in the form of bike lanes on all the study roadways, including SE 9th Street which is part of the identified low stress bicycle network within the City.

Crash Data

We queried the Oregon Department of Transportation (ODOT) Crash Database[1] to obtain the crash records at the existing study intersections for the period from January 1, 2018 through December 31, 2022. The crashes by location, type and severity are shown in Table 2.

Table 2: Reported Crash History (January 1, 2019 – December 31, 2023)

Study Intersection	Crash Type						Severity				Total
	Angle	Turn	Bicycle	Rear-End	Side Swipe	Fixed Object	Property Damage Only	Injury B/C	Injury A	Fatal	
Paiute Way/Reed Market Rd	0	1	0	1	1	2	4	1	0	0	5
American Ln/Reed Market Rd	2	11	0	4	0	1	9	6	2	1	18
9th St/Reed Market Rd	0	5	0	12	0	0	11	6	0	0	17
Quill Pl/Reed Market Rd	0	0	0	0	0	0	0	0	0	0	0
15th St/Reed Market Rd	2	3	1	14	5	3	17	11	0	0	28

As shown in Table 2, we note the following:

- The two fixed object crashes at the SE Paiute Way intersection were both attributable to driving too fast for the conditions and striking a utility pole. One occurred during icy conditions and the other on a clear dry day. Both involved a single vehicle and neither resulted in injuries.
- A fatality occurred at the SE American Lane intersection on August 27, 2019 at approximately 8 PM. Per the crash records, a passenger riding in a westbound left-turning vehicle was killed when the driver didn't yield to the oncoming eastbound traffic when turning left. We note that the eastbound left-turn phasing is operated as protected/permitted at this location and the west leg of the intersection diverges from one to two lanes just before the intersection.
- There were two serious injury (INJ A) crashes that occurred at the SE American Lane intersection. One occurred in May 2019 and involved two eastbound vehicles; no specific causal factor was noted. The second occurred at approximately 6 AM in April 2022 under cloudy, dry conditions and involved a westbound left-turning vehicle not yielding to the oncoming eastbound vehicle when making a permitted left-turn movement.
- Of the 11 turning crashes at SE American Lane, 6 involved westbound left-turning movements (including the two mentioned above), which operates as protected/permitted left-turn phasing.
- Of the 12 rear-end crashes at SE 9th Street, 6 involved southbound vehicles, the remaining 6 were split evenly between the eastbound and westbound vehicles. 4 of the 5 turn crashes at SE 9th Street involved a vehicle making a southbound left-turn movement.
- The 14 rear-end crashes at the SE 15th Street roundabout were equally split amongst the four intersection legs and no specific crash patterns were apparent in the data.

[1] TDS - Crash Reports (state.or.us)

- There was one crash involving a person riding a bike at the SE 15th Street roundabout. This crash occurred on February 8, 2020 at 5 PM and involved a northbound cyclist and a northbound vehicle. The cyclist was noted to be in the roadway but was noted to have the right of way. No additional causal factors were noted.

Intersection crash rates were calculated and compared to statewide crash rate performance thresholds. For this analysis, the critical crash rate was calculated and compared to the 90th percentile crash rates for urban intersections by traffic control and 3- versus 4-legged configurations (as appropriate) following the analysis methodology presented in the APM. The critical crash rate for each intersection is calculated based on the average crash rate for each facility and serves as a threshold for further analysis. Per the APM, intersections with crash rates that exceed the 90th percentile values shown in APM Exhibit 4-1 or with a crash rate that exceeds its critical crash rate should be flagged for further analysis. This is shown in Table 3. In reviewing Table 3, we note that the APM does not include 90th percentile rates for roundabouts (or for all-way stop-controlled locations) as it notes that there are insufficient locations to establish statewide statistics at this type of intersections.

Table 3: Intersection Crash Rate Assessment (January 1, 2019 through December 31, 2023)

Study Intersection	Total Crashes	Observed Crash Rate	90th Percentile Crash Rate by Land Type and Traffic Control	Observed Crash Rate>Critical Crash Rate?
Paiute Way/Reed Market Rd	5	0.17	0.29	No
American Ln/Reed Market Rd	18	0.45	0.51	No
9th St/Reed Market Rd	17	0.44	0.29	Yes
Quill Pl/Reed Market Rd	0	0	0.29	No
15th St/Reed Market Rd	28	0.57	Not Available in the APM	N/A

As discussed above, the SE 9th Street/SE Reed Market Road intersection exceeds the 90th percentile crash rates but as noted above, the crashes are primarily rear-end, primarily property damage only and there were no apparent trends amongst the data. We further note that this intersection will either be limited to right-in, right-out, right-in, right-out, left-in, or closed entirely as part of the railroad crossing project.

Based on the above, the other finding of note relates to the crash experience related to the protected/permitted eastbound left-turn phasing at the SE American Lane/SE Reed Market Road intersection.

Existing and Future Intersection Volumes

In September 2024, information about the existing lane configurations, traffic control devices and weekday PM peak hour counts were collected on a mid-week day. This data provides a baseline of

comparison for year 2045 traffic conditions, both with and without the closure of the SE 9th Street/SE Reed Market Road intersection. Figure 2 shows the existing lane configurations and Figure 3 shows the existing turning movement volumes during the weekday PM peak hour.

Year 2045 PM peak hour traffic volumes at the study intersections were developed per the guidance provided in ODOT's Analysis Procedures Manual (APM) and based on the National Cooperative Highway Research Program (NCHRP) *765 Report* methodologies. Per the APM and the NCHRP report, year 2019 and 2045 forecasts from the Bend-Redmond travel demand model were post-processed based on existing measured turning movement volumes to calculate year 2045 volumes at the study intersections. The travel demand model accounts for the growth in households and employees consistent with the adopted Bend Comprehensive Plan and also incorporates the changes to the transportation system identified in the Bend TSP within the "constrained roadway network" scenario. These updates include the planned north facing ramps at the interchange at SE Murphy Road and US 97.

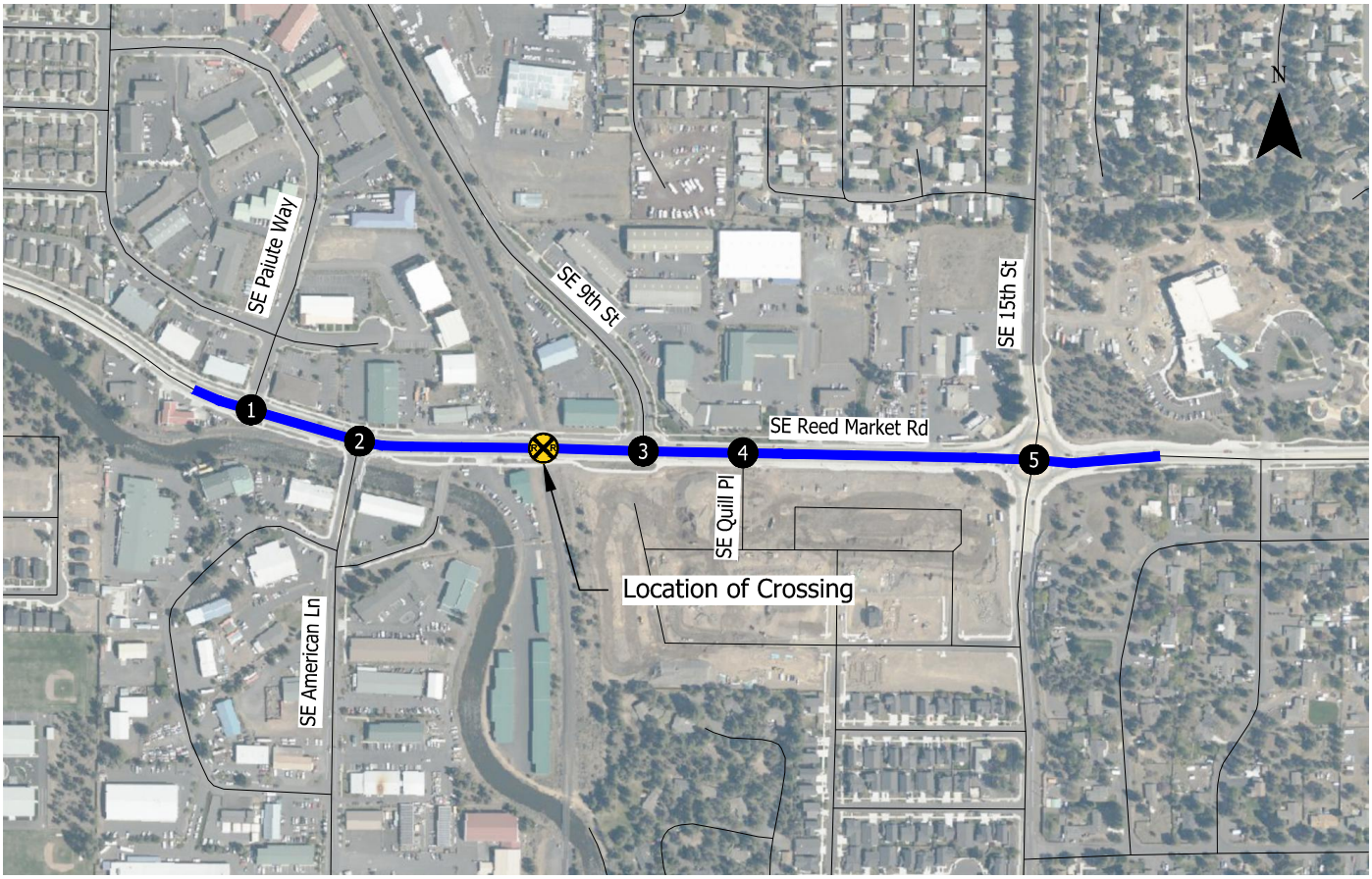
As part of the review of the post-processed intersection volumes, we note that the density of the approved Wildflower Master Plan development (located just east of the SE 15th Street/SE Wilson Avenue intersection) isn't fully captured within the Bend-Redmond Travel Demand Model. For this reason, we added the anticipated trip generation of the development (consistent with the November 2023 Transportation Impact Study) to the study intersections. This results in a small increase in year 2045 volumes within the study area, mostly along the SE 15th Street corridor.

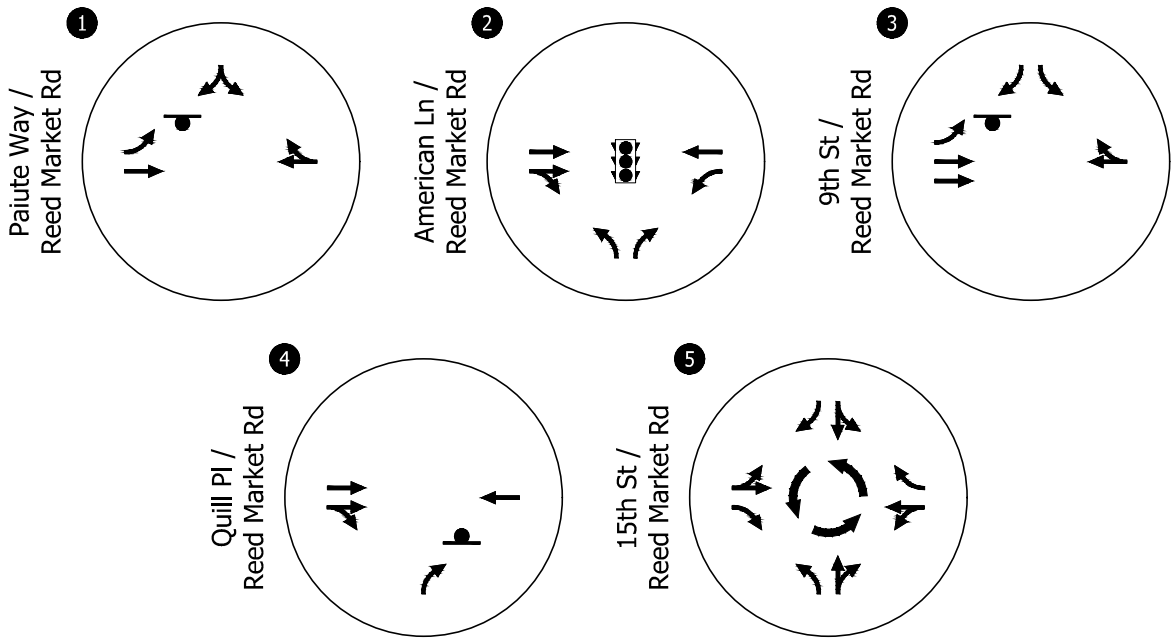
In addition, the 2045 "baseline" volumes account for the closure of the SE Quill Place/SE Reed Market Road intersection, given its proximity to the rail crossing. This local street intersection serves an existing residential development comprised of detached and attached single family homes as well as a childcare center. In addition to SE Quill Place, the neighborhood is accessed via three local street intersections on SE 15th Street to the south of SE Reed Market Road. As was shown in Figure 3, the existing volumes to/from SE Quill Place are fairly low today and will continue to be so in the future. As such, the closure of this intersection would not significantly affect the travel on SE Reed Market Road in 2045. However, we do note that its closure would result in approximately one-quarter mile out of direction travel for people traveling by car to instead use one of the intersections along SE 15th Avenue. No changes are anticipated for people walking and biking because access can still be provided for these users to SE Reed Market Road at SE Quill Place.

Additionally, the future year baseline condition was modeled to restrict the SE 9th Street/SE Reed Market Road intersection to right-in, right-out movements only. This restriction is necessary due to the grades that will exist along the future crossing structure. The impact on vehicular demand resulting from this restriction is discussed further in subsequent sections of the memorandum. As shown in Figure 3, the existing volumes making a southbound left turn are relatively low compared to other movements at the intersection. A similar pattern of volumes is seen in the AM peak hour with a low southbound left volume.

The future year volumes along SE Reed Market Road were compared to the prior study that informed the current roundabout configuration at SE 15th Street/SE Reed Market Road and other intersections along the corridor. We note that since that time, many changes have been made to the land use assumptions in the vicinity of the study area, most notably the inclusion of additional lands in the southeast part of the city and urban growth boundary, including the area identified as the Southeast Area Plan, Stevens Ranch Master Plan, and the Stevens Road Tract. Given these changes, the 2045 forecasts in this analysis are

based on the current, revised land use projections for this area. As a result, forecasts project more vehicular demand along both SE Reed Market Road and SE 15th Street, which notably increases expected demand along SE 15th Street. These updated projections are the basis of recommendations included in the memorandum.





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- TRAFFIC SIGNAL
- ROUNDABOUT

Existing Lane Configurations
& Traffic Control Devices
Bend, OR

Figure
2

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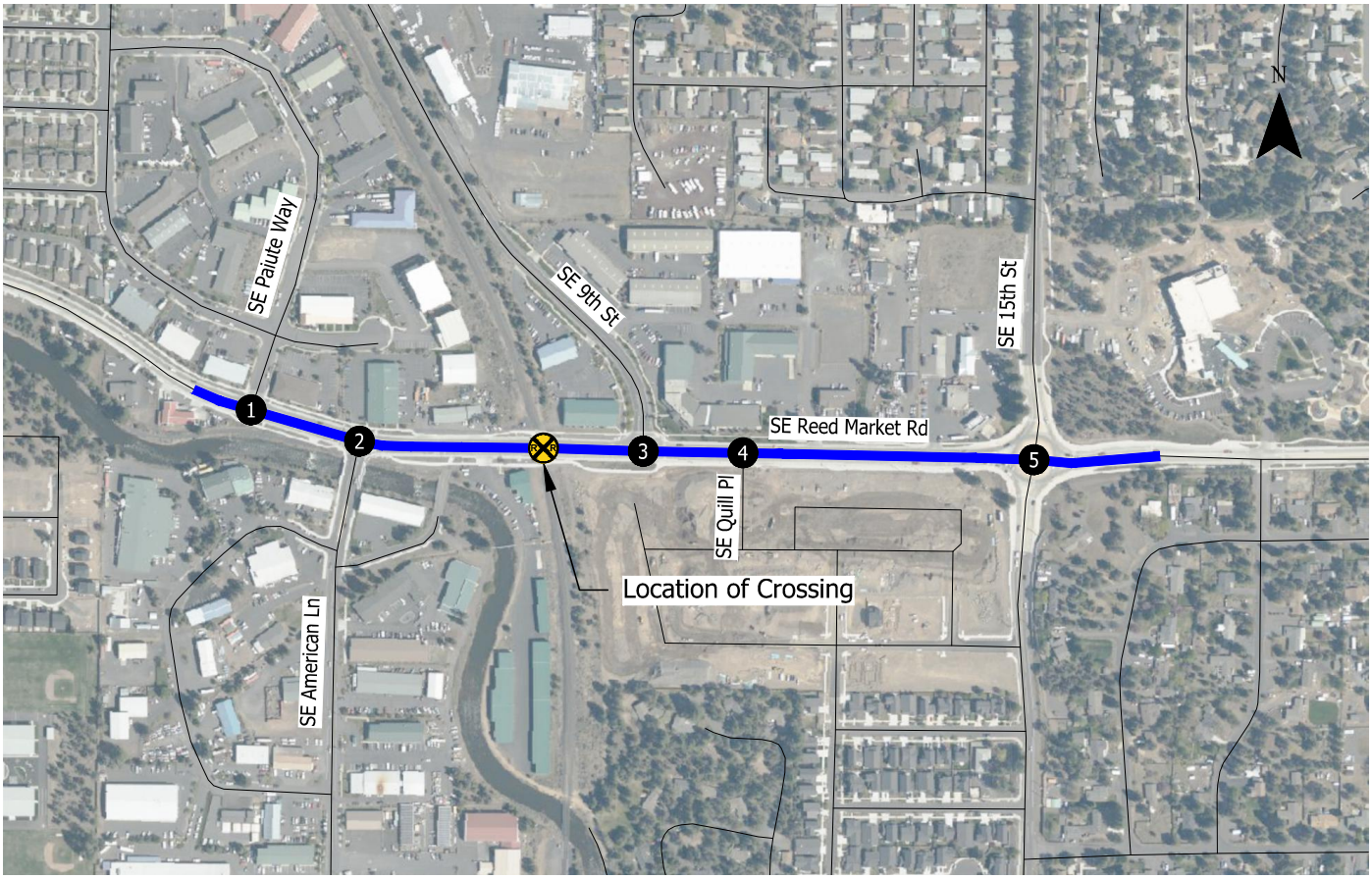

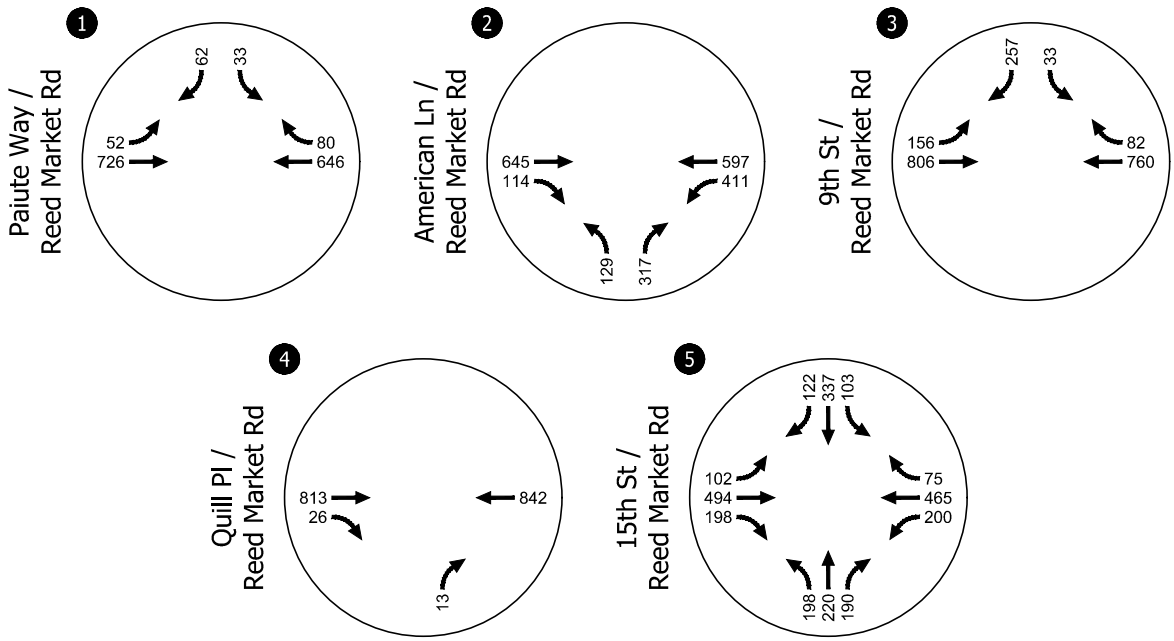

Existing Traffic Volumes
PM Peak Hour
Bend, OR

Figure
3

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Based on the above, the year 2045 intersection turning movement volumes are shown in Figure 4 assuming SE 9th Street is restricted to right-in, right-out. We also note that assuming the hourly profiles remain relatively consistent in the corridor, the year 2045 weekday PM peak hour volumes would suggest that the SE Reed Market Road corridor could carry approximately 31,000 vehicles per day in the future (with two travel lanes in each direction), which is still consistent with the arterial street classification.

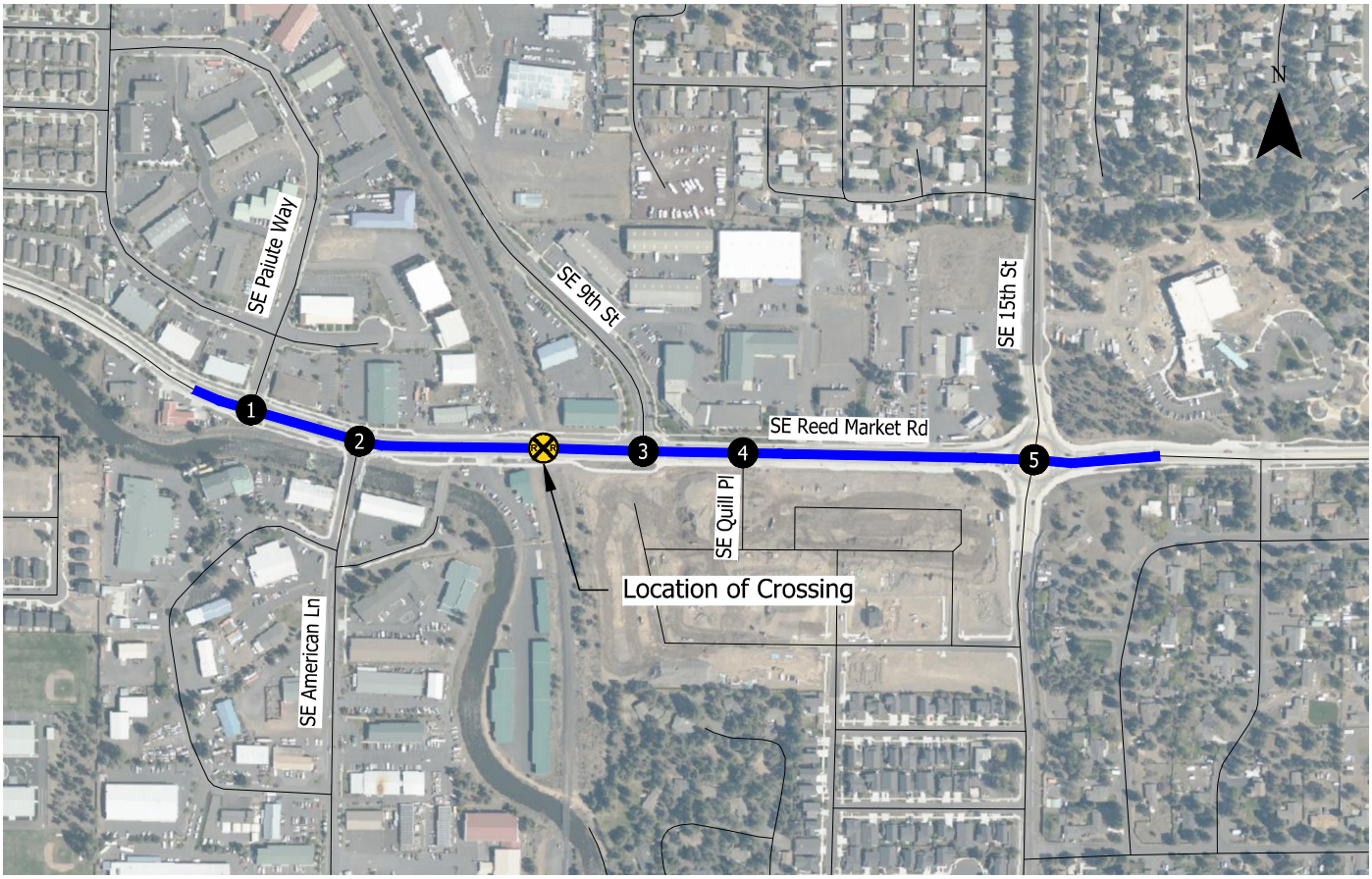
In addition to a right-in, right-out scenario we analyzed a scenario of a right-in, right-out, left-in at 9th Street. By allowing a left-in, vehicles are able to go northbound on SE 9th Street unrestricted from SE Reed Market Road. The year 2045 intersection turning movement volumes assuming SE 9th Street is restricted to right-in, right-out, left-in are shown in Figure 5.

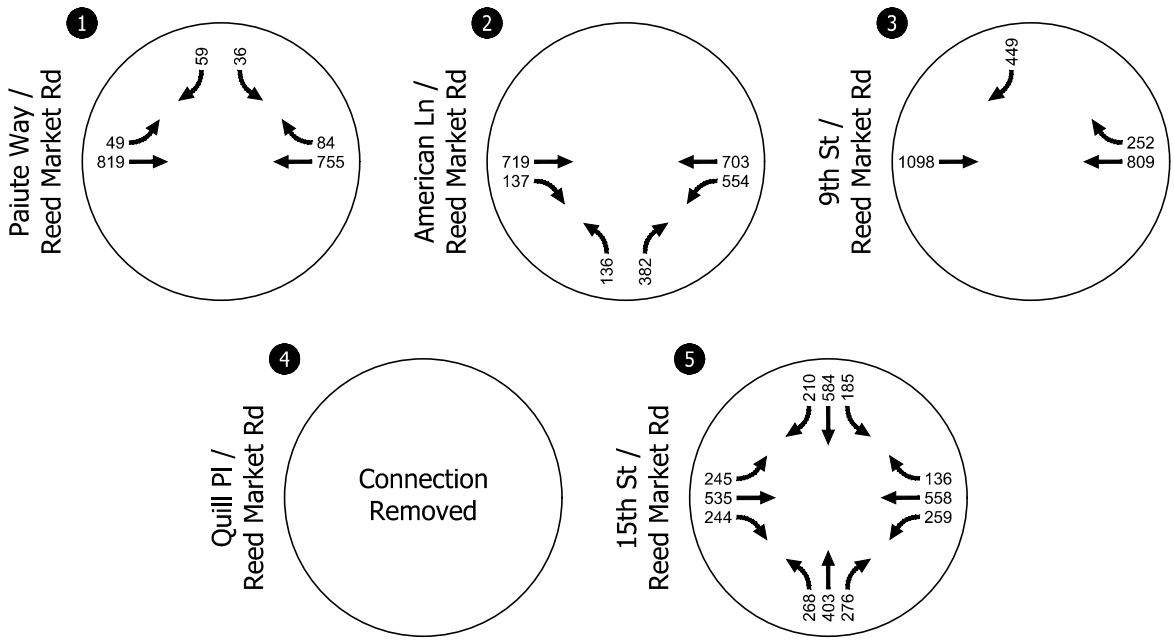
With the proximity of SE 9th Street to the rail crossing, we also estimated year 2045 PM peak hour volumes assuming the SE 9th Street/SE Reed Market Road intersection is closed to vehicular traffic. For this analysis, we obtained year 2045 travel demand forecasts assuming the closure is in-place and then post-processed the volumes using the same methodology described above. The resulting intersection turning movement volumes are shown in Figure 6.

For reference purposes, Figure 7 illustrates a relative comparison of corridor travel volumes between the scenarios in which SE 9th Street is open and SE 9th Street is restricted to right-in, right-out. Figure 8 shows the same comparison but instead assumes that SE 9th Street is fully closed to traffic at SE Reed Market Road in 2045. As shown, the closure of SE 9th Street has the most material change on traffic volumes on the SE 3rd Street and SE 15th Street intersections but the total traffic volumes on SE Reed Market Road, SE Paiute Way, SE American Lane and SE 15th Avenue remain relatively consistent between the two scenarios.

As the area around SE 9th Street redevelops, block requirements may add additional grid connections between SE 9th Street and SE 15th Street. The grid connections would improve circulation with either the full closure, right-in right-out, or right-in right-out left-in scenarios.

Existing pedestrian and bicycle facilities will be maintained in all the proposed scenarios. However, future connections between SE Reed Market Road and side streets may include out-of-direction travel due to the potential grades across the railroad crossing and available space at the intersections. The specific facilities and their respective form are being determined through the design process. SE 9th Street will continue to be part of the low stress bicycle network in the City and a bicycle connection between SE 9th Street and SE Reed Market will be maintained.





Future 2045 Traffic Volumes - 9th St Restricted to Right-in, Right-Out
PM Peak Hour
Bend, OR

Figure 4

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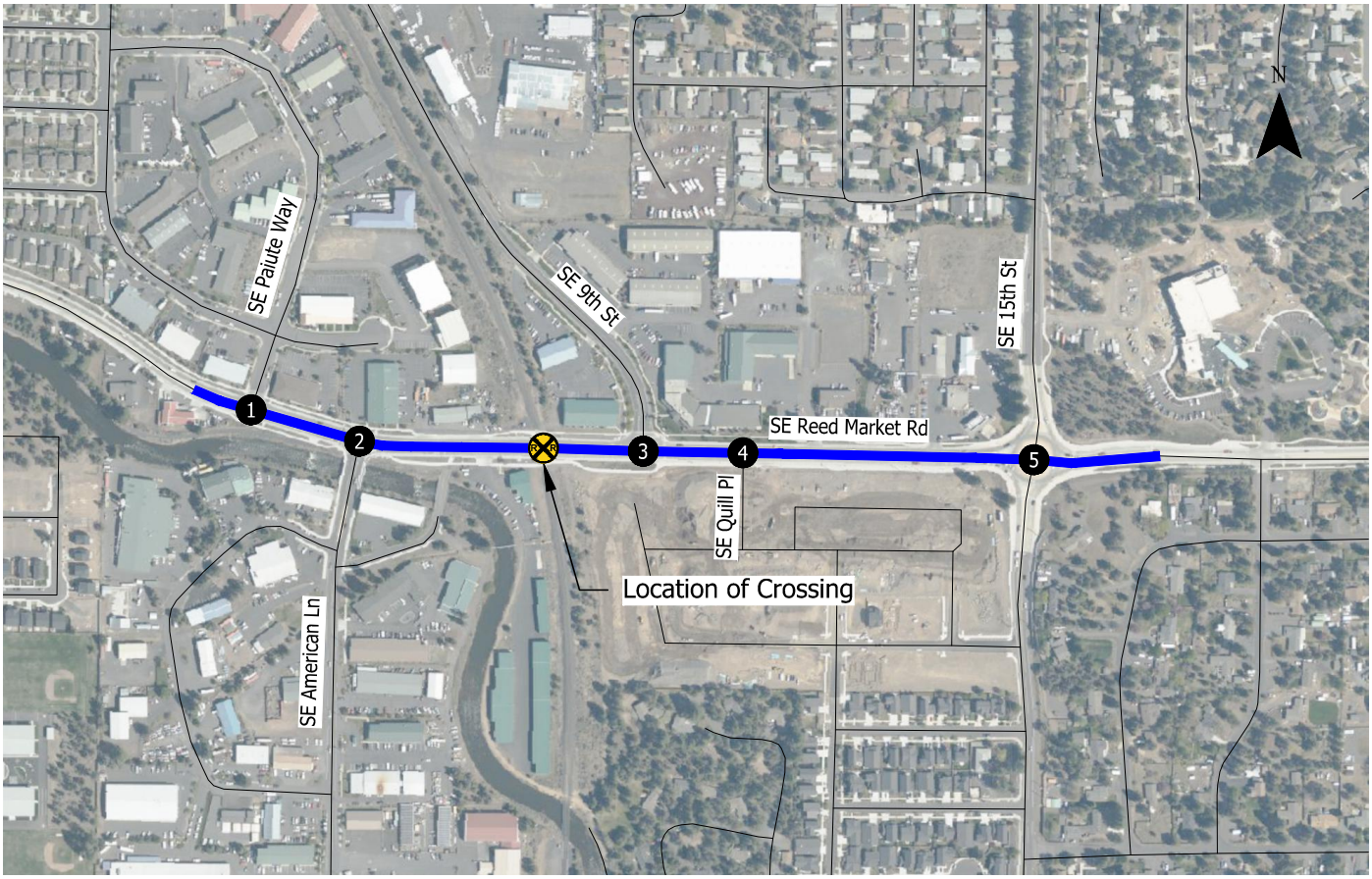

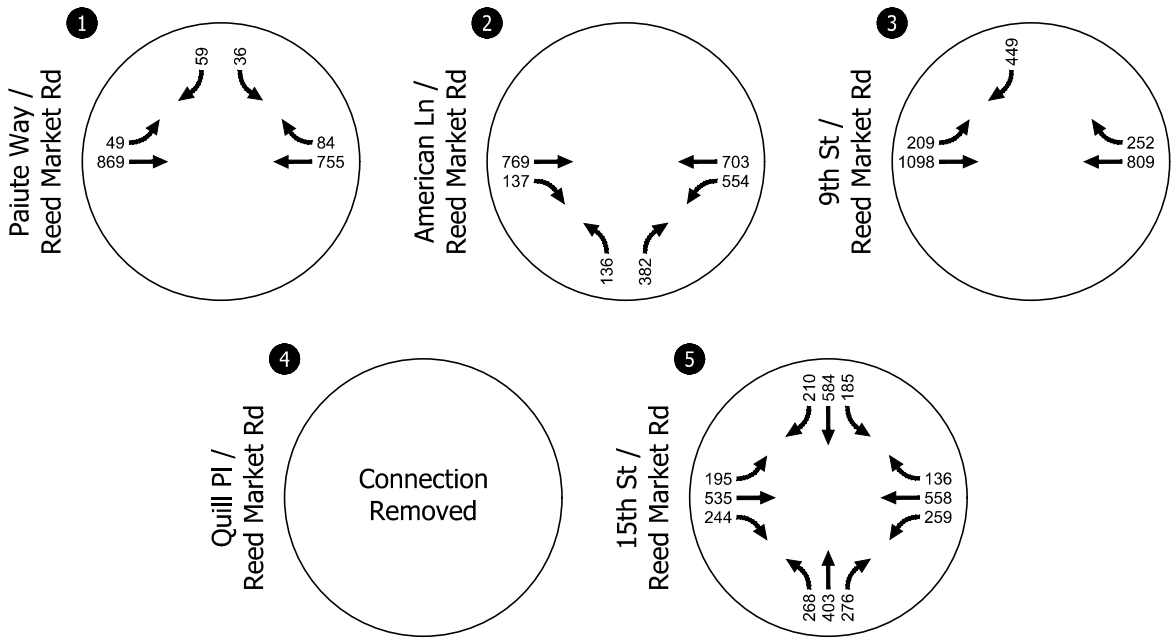

Future 2045 Traffic Volumes - 9th St Restricted to Right-in, Right-Out, Left-in
PM Peak Hour
Bend, OR

Figure
5

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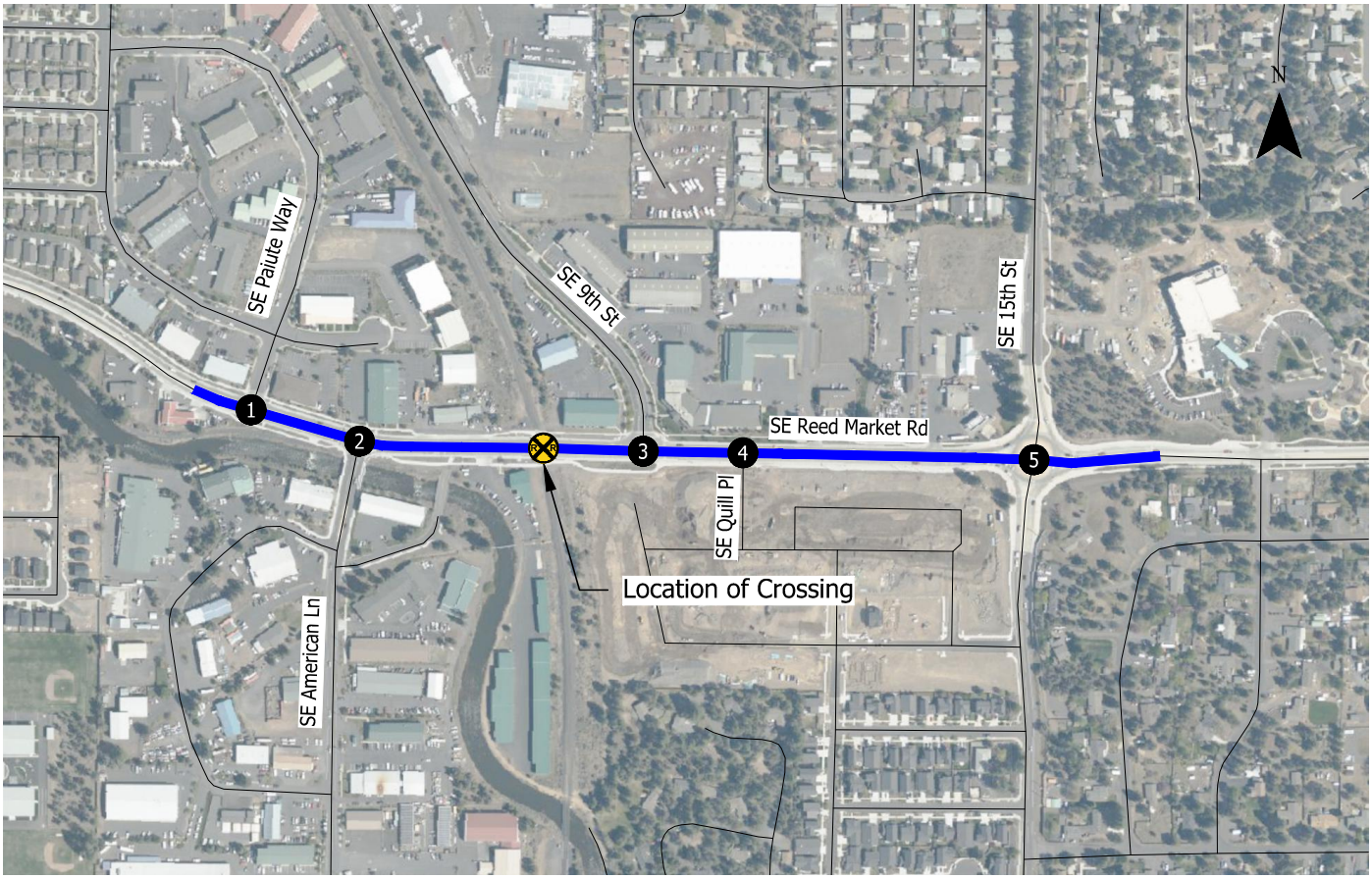

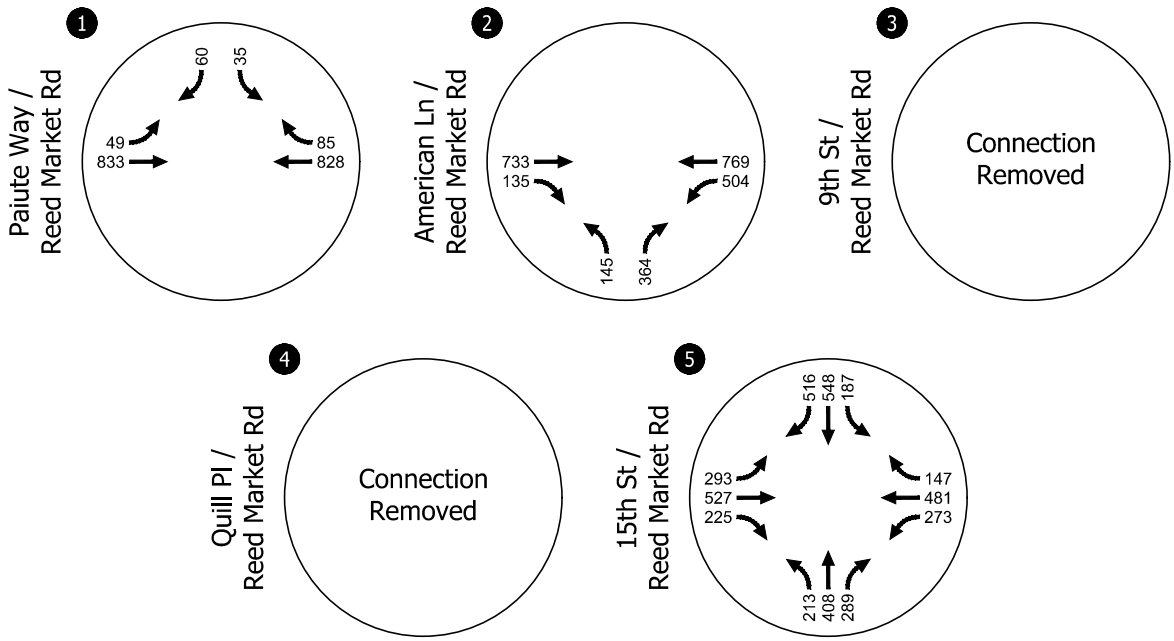

Future 2045 Traffic Volumes - 9th St Disconnected
PM Peak Hour
Bend, OR

Figure 6

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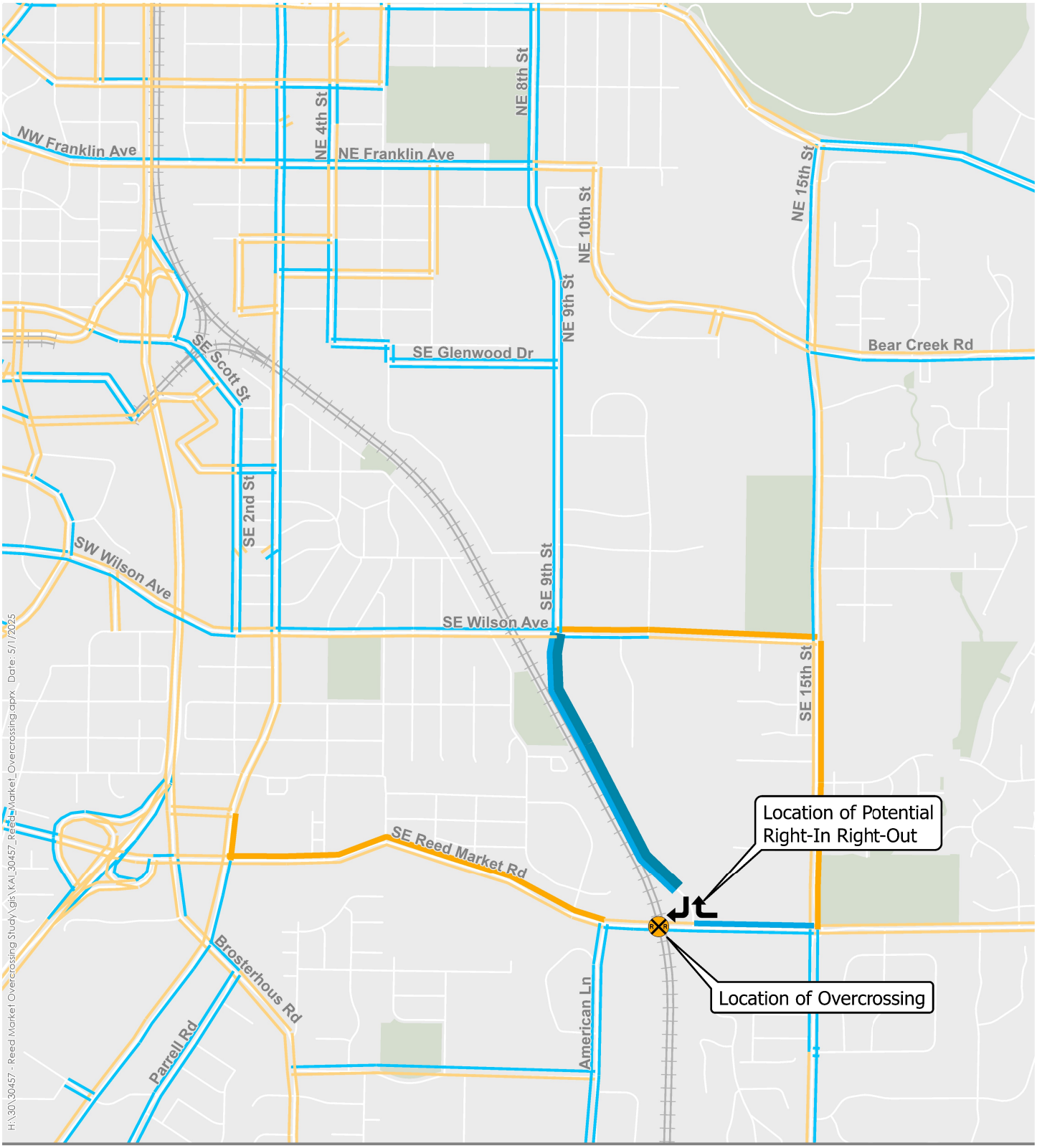


Figure 7

Change in 2045 PM Peak Hour Demand Due to Potential SE 9th Street Connection Right-In Right-Out at Reed Market Road

KITTELSON & ASSOCIATES

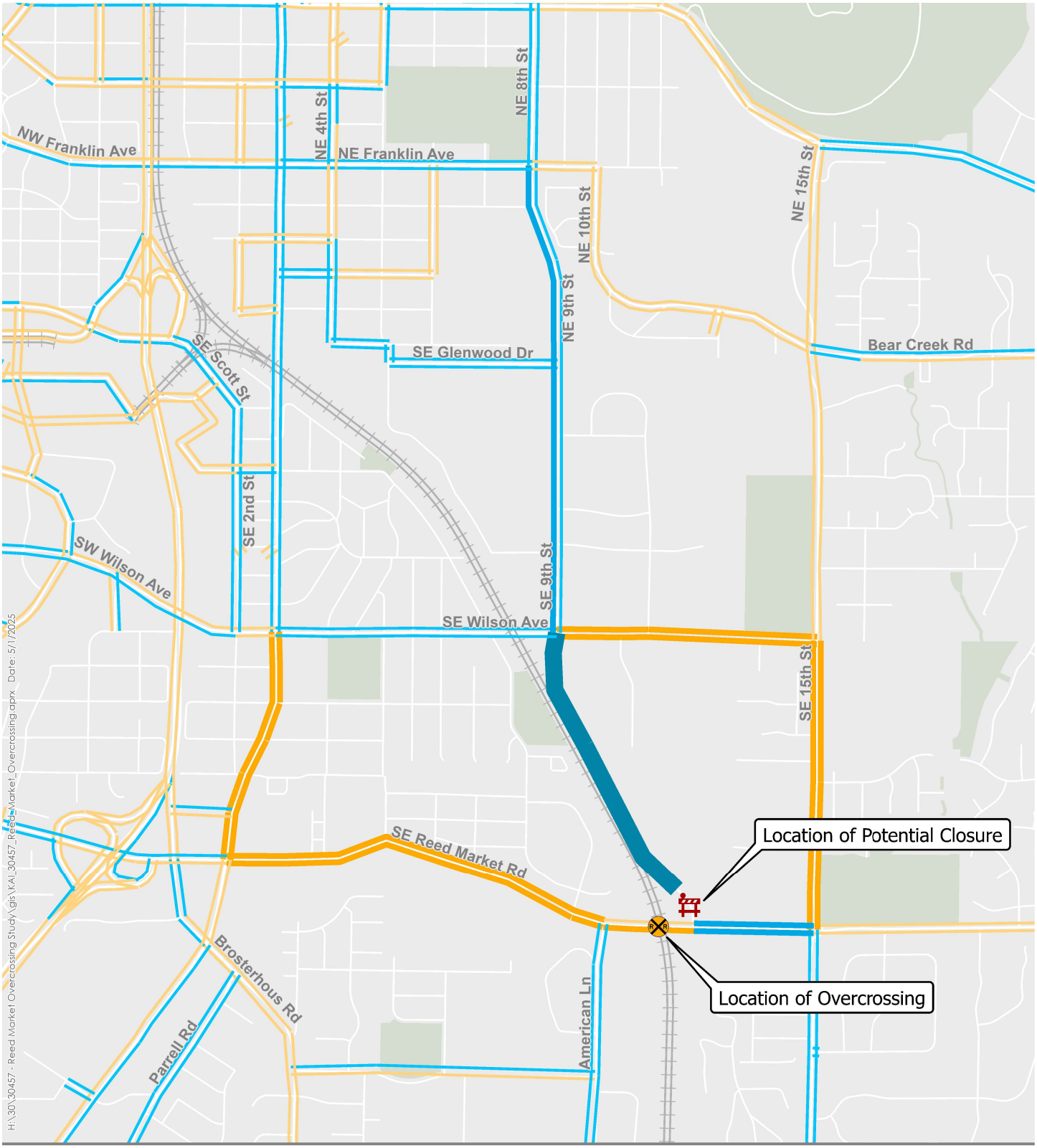


Figure 8

Change in 2045 PM Peak Hour Demand Due to Potential SE 9th Street Connection Closure at Reed Market Road

KITTELSON & ASSOCIATES

Intersection Operational Analyses

To help inform the considerations regarding the potential effects of the intersection closures adjacent to the rail crossing, we analyzed both existing and year 2045 intersection operations. The resultant operations were compared to the City's operating standards (as defined in Bend Development Code (BDC) 4.7.500.B.6.d). Per the BDC, the City deems that the following operations do not meet their standards:

- Two-Way Stop Control (TWSC): Average delay for the critical lane group for any major intersection with greater than 100 peak hour trips is greater than or equal to 50 seconds during the peak hour.
- Signalized Intersections: Volume-to-capacity (V/C) ratio for the intersection as a whole is greater than or equal to 1.0 during the peak hour.
- Roundabout: Volume-to-capacity ratio for the critical movement is greater than or equal to 1.0 during the peak hour.

In addition to delay and V/C ratios, we also calculated 95th percentile queuing was calculated to identify any queuing interactions between adjacent intersections.

Existing Operations

Based on the volumes reflected in Figure 3 and the existing lane configurations shown in Figure 2, Table 4 reflects the existing intersection operations.

Table 4: Existing PM Peak Hour Intersection Operations

Intersection	Control	Critical Movement	V/C	LOS	Delay (s)	95th Percentile Queue (ft)[1]
Paiute Way/Reed Market Rd	TWSC	SB	0.41	D	30.8	SBLR: 50 EBL: 25
American Ln/Reed Market Rd	Signal	-	0.72	B	11.2	NBL: 50 NBR: 50 EBT: 150 EBTR: 150 WBL: 75 WBT: 100
9th St/Reed Market Rd	TWSC	SBL	0.38	F	>50	SBL: 50 SBR: 75 EBL: 25
Quill Pl/Reed Market Rd	TWSC	NBR	0.02	B	11.3	NBR: 25
15th St/Reed Market Rd	Roundabout	EBLT & WBLT	0.80	C	22.0	NBL: 50 NBTR: 100 SBLT: 175 SBR: 25 EBLT: 225 EBR: 25 WBLT: 225 WBR: 25

1. 95th percentile queue lengths are rounded to the nearest vehicle length (25 feet)

As shown, all intersections operate acceptably today (the southbound left-turn at SE 9th Street has high delays but less than 100 peak hour trips turn at this location, thereby satisfying City standards). We do note that there are queues of 175 – 225 feet at the SE 15th Street/SE Reed Market Road roundabout today.

Year 2045 Analyses

For the year 2045, the lane configurations and traffic control devices reflected in Figure 9 were assumed to be in-place based on the TSP projects. These include:

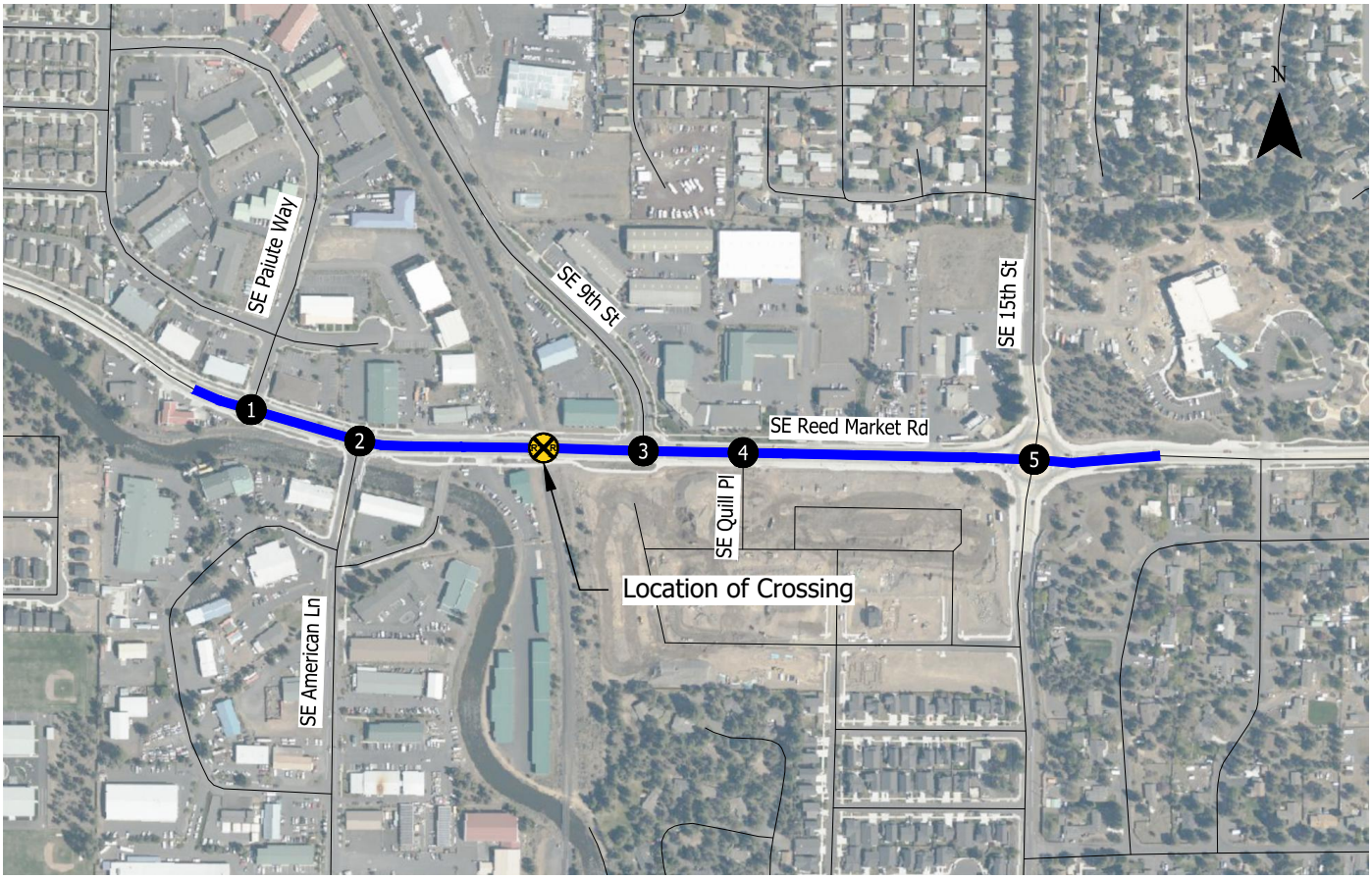
- SE Paiute Way/SE Reed Market Road: No change from existing conditions.
- SE American Lane/SE Reed Market Road: No change from existing conditions.
- SE 9th Street/SE Reed Market Road: Three different SE 9th Street connection scenarios were evaluated for how vehicle connections are provided at SE Reed Market Road. Future connections

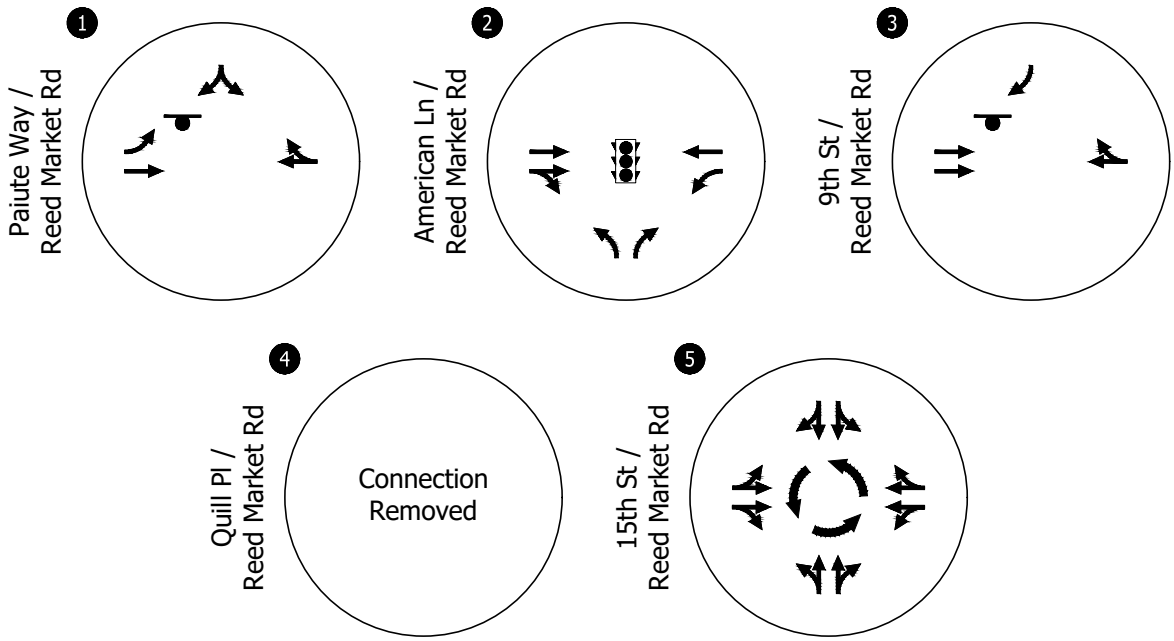
that are provided will need to consider the vertical grade of the intersection and other design elements that will be further refined through the crossing design effort. The vehicle connection scenarios are:

- Modify the intersection to be a right-in, right-out configuration (i.e., only right-turns to and from SE 9th Street).
- Modify the intersection to be a right-in, right-out, left-out configuration (i.e., only right-turns to and from SE 9th Street and left-turns from SE Reed Market Road onto SE 9th Street).
- Assume no vehicle connection between SE 9th Stret and SE Reed Market Road.

- SE 15th Street/SE Reed Market Road: Modify the existing roundabout to be a full two-lane roundabout with left-turn/through and through/right-turn lane on each approach and two exiting lanes on each exit to better serve projected volumes. This configuration is consistent with long-term planning documents, including the Bend TSP.

For the year 2045 right-in, right-out, left-in analyses, the lane configurations and traffic control devices are the same as Figure 9 except for the addition of an eastbound left turn lane at SE 9th Street/SE Reed Market Road.





- STOP SIGN
- TRAFFIC SIGNAL
- ROUNDABOUT

Future Lane Configurations & Traffic Control Devices
Bend, OR

Figure 9

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Table 5: Summary of 2045 PM Peak Hour Traffic Operations – With 9th Street Connection (RIRO)

Intersection	Control	Critical Movement	V/C	LOS	Delay (s)	95th Percentile Queue (ft)[1]
Paiute Way/Reed Market Rd	TWSC	SB	0.44	E	47.7	SBLR: 75 EBL: 25
American Ln/Reed Market Rd	Signal	-	0.80	B	14.6	NBL: 75 NBR: 100 EBT: 225 EBTR: 225 WBL: 175 WBT: 150
9th St/Reed Market Rd	TWSC	SBR	0.93	F	>50	SBR: 275
Quill Pl/Reed Market Rd	-	-	-	-	-	-
15th St/Reed Market Rd	Roundabout	SBTR & EBTR	>1.0	F	>50	NBLT: 225 NBTR: 300 SBLT: 300 SBTR: 400 EBLT: 300 EBTR: 425 WBLT: 200 WBTR: 275

1. 95th percentile queue lengths are rounded to the nearest vehicle length (25 feet)

As shown, SE 9th Street/SE Reed Market Road and SE 15th Street/SE Reed Market Road exceed the City's mobility targets in 2045 with a right-in, right-out at SE 9th Street and a multilane roundabout at SE 15th Street/Reed Market Road. SE Paiute Way/SE Reed Market Road operates with high delay but has under 100 SB peak hour trips. The eastbound through and through right queues at SE American Lane/SE Reed Market Road exceed the available storage and spill back to SE Paiute Way.

Table 6: Summary of 2045 PM Peak Hour Traffic Operations – With 9th Street Connection (RIROLI)

Intersection	Control	Critical Movement	V/C	LOS	Delay (s)	95th Percentile Queue (ft)[1]
Paiute Way/Reed Market Rd	TWSC	SB	0.57	F	>50	SBLR: 75 EBL: 25
American Ln/Reed Market Rd	Signal	-	0.81	B	15.6	NBL: 75 NBR: 100 EBT: 250 EBTR: 250 WBL: 175 WBT: 150
9th St/Reed Market Rd	TWSC	SBR	0.93	F	>50	SBR: 275
Quill Pl/Reed Market Rd	-	-	-	-	-	-
15th St/Reed Market Rd	Roundabout	SBTR	>1.0	F	>50	NBLT: 200 NBTR: 250 SBLT: 300 SBTR: 400 EBLT: 250 EBTR: 375 WBLT: 175 WBTR: 250

1. 95th percentile queue lengths are rounded to the nearest vehicle length (25 feet)

As shown, the right-in, right-out, left-in scenario is expected to have similar operational results to the right-in, right-out scenario. SE 9th Street/SE Reed Market Road and SE 15th Street/SE Reed Market Road exceed the City's mobility targets in 2045 with a right-in, right-out, left-in at SE 9th Street and a multilane roundabout at SE 15th Street/SE Reed Market Road. SE Paiute Way/SE Reed Market Road operates with high delay but has under 100 SB peak hour trips. The eastbound through and through right queues at SE American Lane/SE Reed Market Road exceed the available storage and spill back to SE Paiute Way.

WITHOUT 9TH STREET CONNECTION

Table 7: Summary of 2045 PM Peak Hour Traffic Operations – Without 9th Street Connection

Intersection	Control	Critical Movement	V/C	LOS	Delay (s)	95th Percentile Queue (ft)[1]
Paiute Way/Reed Market Rd	TWSC	SB	0.60	F	>50	SBLR: 100 EBL: 25
American Ln/Reed Market Rd	Signal	-	0.79	B	13.8	NBL: 75 NBR: 100 EBT: 200 EBR: 200 WBL: 125 WBT: 175
9th St/Reed Market Rd	-	-	-	-	-	-
Quill Pl/Reed Market Rd	-	-	-	-	-	-
15th St/Reed Market Rd	Roundabout	SBTR	>1.0	F	>50	NBLT: 225 NBTR: 275 SBLT: 450 SBTR: 625 EBLT: 300 EBTR: 425 WBLT: 175 WBTR: 225

1. 95th percentile queue lengths are rounded to the nearest vehicle length (25 feet)

As shown, SE 15th Street/SE Reed Market Road exceeds the City's mobility targets in 2045 with a full closure at SE 9th Street and a multilane roundabout at SE 15th Street/SE Reed Market Road. SE Paiute Way/SE Reed Market Road operates with high delay but has under 100 SB peak hour trips. The eastbound through and through right queues at SE American Lane/SE Reed Market Road exceed the available storage and spill back to SE Paiute Way.

Comparison of future SE 9th Street Connection Scenarios

The vehicle operations in the right-in, right-out at SE 9th Street scenario, right-in, right-out, left-in at 9th Street scenario, and the scenario without a 9th Street connection are similar along the Reed Market Road corridor. However, these scenarios impact the surrounding transportation network in different ways. These differences are described in the following sections.

WITHOUT THE SE 9TH STREET CONNECTION

The adjacent north-south routes of SE 3rd Street and SE 15th Street will see an increase in demand, shown in Figure 8. Both corridors are challenged operationally in the future with the SE 9th Street connection. Fully removing the SE 9th Street/SE Reed Market Road intersection will move much of the SE 9th Street north-south traffic to these adjacent corridors.

In general, route choices for vehicular traffic (people driving and taking transit) will be reduced. The connection from SE 9th Street to SE Reed Market Road for people walking and biking will be maintained but may be less direct depending on the overpass structure grades and available space.

The neighborhood west of SE 9th Street may also see increased cut-through traffic along SE Paiute Way and Centennial Street. The nearest parallel route to SE 9th Street is along local roads to the west, SE Paiute Way and SE Centennial Street, through commercial and residential areas. The travel demand model does not include these roads and does not capture the possible cut-through in the operational analysis. Traffic calming measures such as a raised crossing at Kiwanis park, and curb bulb outs may help mitigate speeds along the neighborhood route.

Access to the businesses along SE 9th Street would become more cumbersome for people coming from the south with the only access available via Wilson Avenue. In order to go around the closure, a route of approximately 1.5 miles additional travel using SE 15th Street or SE 3rd Street and SE Wilson Avenue is required.

Emergency services routing may be affected by the full closure. The closest fire stations are at SE Murphy Road/SE Country Club Drive and SE 15th Street/US 20. SE Reed Market Road is centered between the two fire stations, so both could be affected by a full closure at 9th Street. The emergency routing would use SE 3rd Street or SE 15th Street as north-south routes across SE Reed Market Road.

The north-south route of SE American Lane and SE 9th Street are offset today at SE Reed Market Road but provide a continuous parallel collector route to SE 3rd Street and SE 15th Street. A full closure at SE 9th Street will limit the alternate route to serve only the areas north or south of SE Reed Market Road.

RIGHT-IN, RIGHT-OUT AND RIGHT-IN, RIGHT-OUT, LEFT-IN AT SE 9TH STREET

The right-in, right-out scenario and right-in, right-out, left-in scenario affects the surrounding transportation network in similar ways to the full closure scenario but with less diversion of trips. The right in, right-out scenario will still allow the SE 9th Street/SE American Lane alignment to serve as a parallel collector route alternative to SE 3rd Street/SE 15th Street for southbound trips. The right-in, right-out, left-in scenario allows the parallel connector route alternative for both southbound and northbound trips. In addition to the effects discussed above, both the right-in, right-out scenario and right-in, right-out, left-in scenario location may provide challenges with sight distance and ADA requirements due to potential overcrossing grades. Adverse weather conditions may be a concern for vehicles getting on and off SE Reed Market Road at SE 9th Street due to the overcrossing grades.

Conclusion

This evaluation of transportation related impacts of the Reed Market Road crossing resulted in the following findings:

- The existing traffic volumes and speeds along the corridor are consistent with the classification of SE Reed Market Road as an arterial. Year 2045 traffic volumes are also consistent with the arterial classification.
- Today, all of the intersections operate acceptably. In the future, the intersections of SE 9th Street/Reed Market Road and SE 15th Street/Reed Market Road are shown to exceed City's standards with the proposed lane configuration changes.
- Pedestrian and bicycle connections will be maintained at the study intersections but may require out of direction travel due to crossing grades and available space at the intersections. In addition, SE 9th Street in the study area is part of the identified low stress bicycle network within the City. To accommodate for this, a connection will be provided between SE 9th Street and SE Reed Market Road.
- Based on current bridge design alternatives, the SE 9th Street intersection with Reed Market Road is being evaluated as either a right-in, right-out configuration, right-in, right-out, left-in configuration, or a full closure in the future. The effects of the three options are presented within this memorandum.
- A full closure at SE 9th Street/SE Reed Market Road will divert north-south traffic to SE 3rd Street and SE 15th Street, while the right-in right-out and right-in, right-out, left-in scenarios at SE 9th Street/Reed Market Road will create less diverted trips.
- As part of the crossing design, the SE Quill Place intersection with SE Reed Market Road would need to be closed given its proximity to the rail crossing. Although the closure of this intersection will not significantly affect travel on SE Reed Market Road, it will result in approximately one-quarter mile out of direction travel for people traveling by car. However, access for pedestrians and cyclists will still be maintained at Quill Place, ensuring continued connectivity for non-motorized traffic.
- Emergency vehicle travel will be affected by any future closure scenario at SE 9th Street/SE Reed Market Road. Similar to the diverted trips, the right-in right-out and right-in, right-out, left-in scenarios would have less effect on out of direction travel for emergency vehicles.
- Vehicular, walking, and biking detours during the construction of the crossing will need to be evaluated along Reed Market Road and the adjacent north-south corridors, such as SE 3rd Street and SE 5th Street. A primary factor will be whether or how connections can be maintained during construction at SE Paiute Lane, SE American Lane, and SE 9th Street. Intersection and corridor improvements to the surrounding network, including roundabout projects at SE 15th Street/SE Reed Market Road and SE 15th Street/SE Ferguson Road, are expected to be in place prior to the temporary closure of SE Reed Market Road during construction.

APPENDIX 5:
DRAFT GEOTECHNICAL REPORT



SUBMITTED TO:
DOWL
1001 SW Emkay Dr., Suite 120
Bend, Oregon 97702



BY:
Shannon & Wilson
3990 Collins Way, Suite 100
Lake Oswego, OR 97035

(503) 210-4750
www.shannonwilson.com

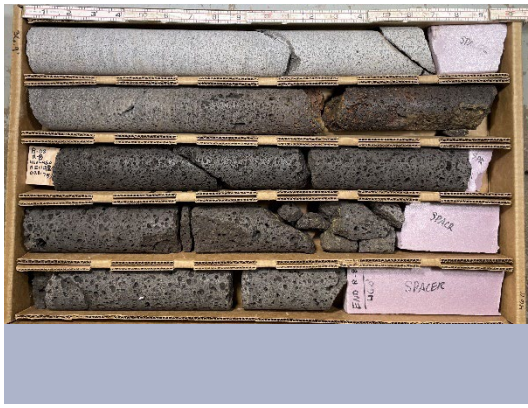
DRAFT

PRELIMINARY GEOTECHNICAL ENGINEERING REPORT

Reed Market Corridor Study

BEND, OREGON





SHANNON & WILSON

May 2025

Shannon & Wilson No: 113462

Submitted To: DOWL
1001 SW Emkay Dr., Suite 120
Bend, Oregon 97702
Attn: Nick Robertson

Subject: DRAFT GEOTECHNICAL ENGINEERING REPORT, REED MARKET CORRIDOR STUDY, BEND, OREGON

Shannon & Wilson prepared this report and participated in this project as a subconsultant to DOWL. Our scope of services was specified in Task Order 53 under our Master Service Agreement with DOWL dated October 31, 2024. This report presents the findings of our geotechnical investigation, the results of our geotechnical analysis, and our recommendations for the geotechnical elements of the project. This report was prepared by the undersigned.

We appreciate the opportunity to be of service to you on this project. If you have questions concerning this report, or if we may be of further service, please contact us.

Sincerely,

SHANNON & WILSON

James Walters, PE
Associate Engineer

Jiayao Wang, EIT
Geotechnical Staff

JXW:JJW/lxr

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Important Information

ACRONYMS

ACRONYMS

AASHTO	American Association of State Highway and Transportation Officials
AREMA	American Railway Engineering and Maintenance-of-way Association
bgs	below ground surface
bpf	blows per foot
CIP	Cast-in-Place
CSZ	Cascadia Subduction Zone
DOGAMI	Oregon Department of Geology and Mineral Industries
EMS	Emergency Management Services
FS	Factor of Safety
GPR	Ground Penetrating Radar
HAS	Hollow Stem Auger
HQ	HQ Wireline Coring
ksf	kips per square foot
MSE	Mechanically Stabilized Earth
Mw	Moment Magnitude
OSHA	Occupational Safety and Health Administration
OWRD	Oregon Water Resources Department
PCC	Portland Cement Concrete
pcf	pounds per cubic foot
PGA	Peak Ground Acceleration
psi	pounds per square inch
RQD	Rock Quality Designation
SPT	Standard Penetration Test
VWP	Vibrating Wire Piezometer

1 INTRODUCTION

The City of Bend (the City) plans to create a grade-separated crossing of SE Reed Market Rd at the BNSF railroad, which crosses the corridor between American Lane and SE 15th Avenue. Six to eight trains cross Reed Market Rd each day, which creates delays between 5 and 20 minutes, leading to increased greenhouse gas emissions, compromising Emergency Management Services (EMS) response times, and presenting an omnipresent safety concern. Eliminating this at-grade crossing will increase both East-West traffic capacity for the City and improve multimodal safety along this busy traffic corridor. The general location of the project site is shown on the Vicinity Map, Figure 1.

As a subconsultant to DOWL, Shannon & Wilson is providing geotechnical services for the characterization of the subsurface materials and 30% design recommendations for the proposed grade separation.

2 PROJECT UNDERSTANDING

2.1 Site Description

The project site extends approximately 2,000 feet along Reed Market Rd in an east-west direction between Paiute Way Southeast and 15th St. The roadway configuration consists of two lanes for eastbound traffic and a single lane for westbound traffic. Two T-intersections are within the project limits: (1) American Lane extending to the south and (2) Southeast 9th St extending northward.

The BNSF railway is located approximately 500 feet east of American Lane and 300 feet west of 9th St near the center of the project. The railway intersects Reed Market on a slight curve, creating an approximate skew of 14 degrees. The site is generally flat, with elevation changes of approximately 10 feet across the 2,000-foot project length. The lowest elevation, around 3,722 feet, occurs at the Reed Market and 9th St intersection, while both ends of the project area have slightly higher elevations of approximately 3,732 feet. All elevations are in the National Geodetic Vertical Datum of 1929 (NGVD 29). A detailed view of the project site can be viewed on Figure 2, Site and Exploration Plan and Interpretive Subsurface Profile A-A'. Exhibits 2-1 through Exhibit 2-3 present site photographs showing several views on Reed Market Rd.



Exhibit 2-1: Looking east towards the BNSF Railway at boring B-06 on Reed Market Rd.



Exhibit 2-2: Looking east at boring B-02 on Reed Market Rd.



Exhibit 2-3: Looking west at boring B-14 on Reed Market Rd.

2.2 Project Description

To provide grade separation from the railroad, the project team is evaluating both overcrossing and undercrossing options. Both options will require the construction of over 1,000 feet of retaining walls.

An overcrossing would involve raising the Reed Market grade 29 to 34 feet, requiring long approach fill retaining walls and a new bridge spanning the BNSF tracks. We understand the project team is evaluating two span lengths of 142 feet and 95 feet. The shorter span length would reduce the maximum grade by approximately 5 feet.

An undercrossing would require lowering the Reed Market grade approximately 25 feet and constructing a new railroad bridge. This option would require less grade separation due to lower clearance requirements for vehicles, and would involve significant rock excavation, as well as additional coordination with the railroad for bridge design and construction of a temporary shoefly to maintain rail service.

We understand that due to the proximity of the railroad and 9th Street, the profile of 9th Street would need to be modified (raised or lowered) to tie in with the new Reed Market profile or dead-ended, removing the connection to Reed Market. We also understand that a full closure of Reed Market Rd is planned during the duration of construction.

We understand the project team is designing the project using ODOT and AASHTO design standards. Given that the project is funded by a federal grant, AASHTO will override ODOT design criteria where the two are in conflict. The main impact of this report is that

the latest version of the AASHTO LRFD Bridge Design Manual (LRFD 10) uses a risk-targeted approach, where ODOT continues to use a return period and "no-collapse" criteria. The difference between the two methods is discussed in Section 7.

2.3 Scope of Services

Shannon & Wilson's services were conducted in accordance with the scope of services defined in Task Order 53 of our Master Service Agreement with DOWL, signed on October 31, 2024. The completed geotechnical design services for the project consisted of the following tasks:

- Reviewed available existing information and visited the site to observe existing site conditions, geologic hazards, site access for the field explorations, and marked proposed exploration locations;
- Developed a field exploration and laboratory testing work plan;
- Explored the subsurface conditions with 18 geotechnical borings and one Vibrating Wire Piezometer (VWP) installation, three test pits, three infiltration tests, , Ground Penetrating Radar (GPR) testing, and collected soil samples;
- Conducted laboratory testing on selected soil and rock samples to characterize soils and develop soil and rock properties for evaluation;
- Evaluated subsurface conditions;
- Evaluated site-specific seismic hazards, including ground motions, and seismic global stability of proposed retaining walls and abutments;
- Evaluated global stability of the proposed retaining walls and abutments;
- Provided design recommendations for the proposed bridge foundations, embankments, and retaining walls; and
- Prepared a geotechnical report summarizing our explorations, infiltration testing, lab testing, preliminary geotechnical design recommendations, and construction considerations.

3 GEOLOGIC SETTING

3.1 Regional Geology

The City is located within the upper reaches of the Deschutes River Basin, which straddles the boundary between the High Cascades subregion of the Cascade Mountains to the west and the High Lava Plains physiographic province to the east (Orr and Orr, 2000).

The Cascade Mountains have undergone multiple stages of volcanism and structural development starting in the middle Eocene, approximately 45 million years ago, and continuing to the present day (Priest, 1990; Du Bray and others, 2006). Two phases of volcanism distinguish the Western and High Cascades subregions. Rocks of the Western Cascade province originated from widespread volcanism at the earlier stages of the volcanic arc created by the subduction and partial melting of the Farallon Plate (and later the Juan de Fuca Plate) beneath the west coast of North America. The timeframe for volcanism of the Western Cascades ranges from approximately 45 to 5 million years ago (Priest, 1990; Du Bray and others, 2006). Volcanism after approximately 5 million years ago is generally designated to the High Cascades province.

From 7 to 4 million years ago (late Miocene to middle Pliocene), the Cascade region experienced a major structural evolution as volcanism transferred from the Western Cascade to the High Cascade subregion. Structural and tectonic activity in this period resulted in regional uplift of the High Cascades and subsidence to the east, which contributed to the formation of the Deschutes River Basin. The structural changes were accompanied by widespread and varied volcanic activity, which produced a heterogeneous assortment of thin basaltic lava flows, ash-flow tuffs, and ash falls, which are interbedded with sedimentary basin deposits. Collectively referred to as the Deschutes Formation, these deposits are widely distributed within the Deschutes River Basin, where they accumulated as a flat-lying unit hundreds of feet thick (Sherrod and others, 2004).

Volcanism has continued in the area through the late Pliocene (5.3 to 2.6 million years ago) to the present day, depositing volcanics atop the Deschutes Formation. Basalt, andesite, various pyroclastics, and ash flows erupted from volcanic centers including Broken Top, Mount Bachelor, South Sister, and numerous smaller volcanic vents, cinder cones, domes, and fissures. Newberry Volcano, whose main caldera is approximately 25 miles south of Bend, is a relatively young, broad shield volcano that began growing just 400,000 years ago and has erupted as recently as 1,300 years ago (Macleod and others, 1982). Newberry Volcanics blanket much of the Bend area east of US97 between Redmond to the north and US31 to the south.

During the Pleistocene epoch, alpine glaciers advanced and retreated several times, with the maximum eastward advance to within 7 miles of Bend, approximately 22,000 years ago. These glaciers eroded deep canyons into the volcanic deposits and hollowed out extinct volcanoes such as Broken Top (Peterson, and others, 1976). At least two major glaciations occurred in the High Cascades between approximately 140,000 and 10,000 years ago (Sherrod and others, 2004; Peterson and others, 1976). Glacial meltwater streams laid down unconsolidated sand and gravel deposits within valley floors at high elevations and broad outwash plains toward the middle elevations. Within the Tumalo Creek drainage, glacial

deposits of drift and outwash exist at or near the ground surface. Minor deposits from more recent Neoglacial events (in the past 3,500 years) are found on the upper flanks of Middle and South Sisters and Broken Top.

This volcanic landscape has been further altered by incising rivers, erosive glaciers, aeolian processes, and mass wasting events.

3.2 Local Geology

Based on geologic mapping by Sherrod and others (2004), the project site is underlain by a Pleistocene-age undifferentiated basalt flow of the Newberry Volcanics. The majority of these flows originated from vents on the north side of Newberry Volcano and flowed north of Redmond into the Deschutes and Crooked River Canyon. Through our subsurface explorations, we also noted varying amounts of fill and Pleistocene Sand and Gravel overlying the basalt surface at the project site.

4 SEISMIC SETTING

Earthquakes in the Pacific Northwest occur largely as a result of the region's close proximity to an active convergent plate boundary. At this boundary, dense oceanic crust is subducting beneath less dense continental crust. At this subduction plate boundary, known as the Cascadia Subduction Zone (CSZ), Juan de Fuca and Gorda Oceanic Plates are subducting beneath the overriding, westward-moving North American Plate. Oblique convergence of these plates not only results in east-west compressive strain, but also in dextral (right-lateral) shear, clockwise rotation, and north-south compression of accreted crustal blocks that form the leading edge of the North American Plate (Wells and others, 1998). The CSZ extends about 750 miles from northern California to southern British Columbia and lies approximately 135 miles west of the project site. Within the present understanding of the regional tectonic framework and historical seismicity, three broad seismogenic sources have been identified:

- A mega-thrust source at an interface between the North American and Juan de Fuca Plates in the CSZ;
- A deep subcrustal zone (intraslab) in the subducted Juan de Fuca Plate in the CSZ; and
- A shallow crustal zone within the North American Plate.

4.1 Cascadia Subduction Zone: Mega-Thrust Interface Source

CSZ mega-thrust earthquakes originate along the interface between the subducting oceanic plates and the North American Plate. Because of the significant uncertainty of the landward

extent of a potential rupture surface, estimates of the closest distance between the project and the potential rupture surface range from about 65 to 140 horizontal miles. Focal depths for mega-thrust earthquakes are commonly on the order of about 15 to 25 miles. Rupture of the interface could result in earthquakes with moment magnitudes (Mw) on the order of 8.5 to over 9.0, with strong shaking that lasts for several minutes. No large earthquakes have occurred in this zone during historic times (the last 170 years). However, geologic evidence suggests that coastal estuaries have experienced rapid subsidence at various times within the last 2,000 years (e.g., Atwater, 1987; Atwater and Hemphill-Haley, 1997) as a result of tectonic movement associated with megathrust earthquakes on the CSZ. It appears that ruptures of this zone have occurred at irregular intervals that span from about 100 to more than 1,200 years, with an average recurrence interval of about 300 to 500 years (Atwater and Hemphill-Haley, 1997). Based on historical tsunami records in Japan (Satake and others, 1996), the most recent interplate event on the CSZ was a Mw 9.0 event on January 26, 1700.

4.2 Cascadia Subduction Zone: Intraslab Source

CSZ intraslab earthquakes originate from within the subducting oceanic plates as a result of down-dip tensional forces and bending caused by mineralogical and density changes in the plates at depth. These earthquakes typically occur 28 to 37 miles beneath the surface. The nearest seismogenic intraslab portion of the Juan de Fuca Plate is approximately 30 to 60 miles below the Portland area. Ludwin and others (1991) estimate that the maximum Mw from this source zone would be about 7.5. Ground shaking produced by intraplate earthquakes would be less intense and less prolonged in the Portland area than ground motions generated by large subduction zone interface earthquake events. Historic seismicity from this source zone includes the 1949 Mw 6.7 Olympia earthquake, the 1965 Mw 6.7 earthquake between Tacoma and Seattle, and the 2001 Mw 6.8 Nisqually earthquake. While intraslab events have occurred frequently in the Puget Sound area, they are historically rare in Oregon.

4.3 Shallow Crustal Source

Shallow crustal earthquakes within the North American Plate have historically occurred in a diffuse pattern within the Pacific Northwest, typically within the upper 4 to 19 miles of the continental crust. Mabey and others (1993) concluded from their analysis of local geologic features that a crustal earthquake of up to Mw 6.5 could occur virtually anywhere in the Portland area.

Shallow crustal faults and folds throughout Oregon have been located and characterized by the United States Geological Survey (USGS, 2019). Mapped fault locations and detailed descriptions can be found in the USGS Quaternary Fault and Fold Database (USGS, 2019).

The database defines four categories of faults, Classes A through D, based on evidence of tectonic movement known or presumed to be associated with large earthquakes during the Quaternary (less than 1.8 million years ago). For Classes A and B, there is geologic evidence that demonstrates the existence of Quaternary deformation. However, for Class B faults, evidence of Quaternary faulting or slip is more equivocal, or the faults may not extend deep enough to be a source of significant earthquakes.

According to the USGS Quaternary Fault and Fold Database, there are five Class A features within approximately 30 miles of the project site. Their names, general locations relative to the site, and the time since their most recent deformation are summarized in Exhibit 3-1. The CSZ itself is approximately 140 miles west of the project site, with an average slip rate of approximately 40 millimeters (1.5 inches) per year, and the most recent deformation occurred about 300 years ago (Personius and Nelson, 2006).

Exhibit 4-1: USGS Class A Quaternary Faults Within a 30-mile Radius of the Project

Fault Name	Fault Number	USGS Class	Approximate Distance and Direction from Nearest Portion of the Alignment	Slip Rate Category	Time Since Last Deformation
Sisters Fault Zone	852	A	0.6 miles East	< 0.2 mm/yr	< 130 ka
Metolius Fault Zone	853b	A	1.8 miles West	< 0.2 mm/yr	< 130 ka
Unnamed Faults Near Kiwa Butte	842	A	11.6 miles Southwest	< 0.2 mm/yr	< 1.6 Ma
Unnamed Faults Near Millican Valley	841	A	12.0 miles Southeast	< 0.2 mm/yr	< 750 ka
La Pine Graben Faults	838	A	21.9 miles Southwest	< 0.2 mm/yr	< 130 ka

NOTES:

1 Approximate distance between the project site center and the nearest extent of fault mapped at the ground surface.

2 mm = millimeters; yr = year.

3 Ma = “Mega-annum” or million years ago; ka = “Kilo-annum” or one thousand years ago.

5 FIELD EXPLORATION AND LABORATORY TESTING

The exploration program consisted of 18 geotechnical borings, three test pits for infiltration testing, ground penetrating radar, and a suite of laboratory testing. The exploration locations were surveyed by DOWL and are shown in Figure 2 and our Drill Logs.

5.1 Geotechnical Drilling

The geotechnical borings were drilled with a CME-85 truck-mounted drill rig, which was provided and operated by Haz-Tech Drilling of Nampa, Idaho. Exhibit 5-1 summarizes the details of the borings, including their total depth in feet below ground surface (bgs), the drilling method, and the date completed. A Shannon & Wilson Geologist was on site during

the drilling to locate the borings, collect soil and rock samples, and log the material encountered. Additional details regarding the drilling and sampling methods, geotechnical drill logs, and rock core photographs are presented in Appendix A.

Exhibit 4-1: Summary of Geotechnical Borings

Boring Designation	Total Depth (feet bgs)	Drilling Method1	Date Completed
B-01	9	HSA	11/26/2025
B-02	25	HSA & HQ	11/18/2025
B-03	21	HSA & HQ	11/24/2025
B-04	40	HSA & HQ	11/19/2025
B-05	38.5	HSA & HQ	11/23/2025
B-06	51	HSA & HQ	11/20/2025
B-07	50	HSA & HQ	11/24/2025
B-08	50	HSA & HQ	11/21/2025
B-09	29.5	HSA & HQ	11/21/2025
B-10	40	HSA & HQ	11/21/2025
B-11	25	HSA & HQ	11/24/2025
B-12	25.6	HSA & HQ	11/18/2025
B-13	20	HSA & HQ	11/25/2025
B-14	21	HSA & HQ	11/20/2025
B-15	40	HSA & HQ	11/25/2025
B-16	40	HSA & HQ	11/25/2025
B-17	22	HSA & HQ	11/22/2025
B-18	19.35	HSA & HQ	11/21/2025

NOTES:

1 HSA = Hollow Stem Auger, HQ = HQ Wireline Coring.

5.2 Test Pits with Infiltration Testing

Three (3) test pits, designated TP-1 through TP-3, were excavated with a Takeuchi TP250-2 mini excavator, provided and operated by Western States Soil Conservation, Inc. (Western States), out of Hubbard, Oregon. The test pits were excavated to depths ranging from 4 to 8 feet bgs. Following the excavation of the test pits, three (3) infiltration tests were performed. The infiltration testing was performed in general accordance with the Central Oregon Stormwater Manual Test Pit Method. Additional details regarding the excavation of the test pits and the unfactored infiltration rates are presented in Appendix A.

5.3 Geophysical Survey

A geophysical survey was performed by Plateau Geoscience Group along the proposed wall alignments using a cart-mounted GPR with a Mala 250MHz single-channel antenna. Interpretation of the GPR data is provided in the GPR report included in Appendix A. In general, the interpreted data does not indicate any voids greater than 1-foot diameter within the bedrock, and the interpreted depth to bedrock generally agrees with the geotechnical borings.

5.4 Laboratory Testing

The soil samples and rock core samples obtained during our field explorations were transported to our laboratory for further observation and visual-manual classification. The lab testing program included moisture content tests, Atterberg limits tests, particle-size analysis, unconfined compressive strength testing of intact rock, and corrosivity suites. Testing was completed by Shannon & Wilson, Northwest Testing, Inc. (NTI), and Cooper Testing Laboratory, Inc. (Cooper Testing). Results of the laboratory tests and brief descriptions of the test procedures are presented in Appendix B, Laboratory Test Results.

5.5 Previous Explorations

Two (2) geotechnical borings and a geophysical survey were performed for the American Way Bridge in 2012. The geophysical survey consisted of two electrical resistivity profiles, one at each abutment. The boring logs and geophysical survey report are provided in Appendix A.

6 SUBSURFACE CONDITIONS

6.1 Geotechnical Units

We grouped the materials encountered in our field explorations into four geotechnical units, as described below. The definition of the geotechnical units is based on the site explorations and regional geologic information from published sources. General descriptions of the geotechnical units identified in the borings are as follows:

- **Fill**: Includes pavement and base aggregate section, loose to very dense Rock Fragments with some silt and varying amounts of sand (GP-GM), very loose to very dense Silty Rock Fragments with varying amounts of sand and cobbles (GM), loose to medium dense Silty Sand with varying amounts of rock fragments, with cobbles (SM).

- **Pleistocene Sand and Gravel**: very loose to very dense Silty Sand with varying amounts of gravel, with cobbles, with possible boulders (SM), Sandy Silt with varying amounts of gravel, with possible cobbles (ML).
- **Decomposed Newberry Volcanics**: Decomposed Basalt, remolds to dense to very dense Silty Sand with varying amounts of rock fragments (SM).
- **Newberry Volcanics**: fresh to slightly weathered, weak to very strong (R2-R5), some vesicles to highly vesicular, Basalt.

These geotechnical units were grouped based on their engineering properties, geologic origins, and their distribution in the subsurface. The units and our interpretations of their inter-relationships in the subsurface are shown in Figure 2, Site and Exploration Plan and Interpretive Subsurface Profile A-A'and Figure 3, Interpretive Subsurface Cross Sections. The location of the profile and cross-sections is shown in Figure 2. The profile and cross sections are interpretive, and variations in subsurface conditions may exist between the borings. Contacts between the units may be more gradational than shown in the profiles, cross sections, and Drill Logs in Appendix A. The Standard Penetration Test (SPT) N-values presented in the figures and discussed below are as counted in the field (uncorrected). The following sections describe the geotechnical unit characteristics in greater detail.

6.1.1 Fill

Fill was encountered in all borings and test pits from the ground surface to depths ranging from 0.30 to 10 feet bgs. Composition of the Fill was variable and included loose to very dense Rock Fragments with some silt and varying amounts of sand (GP-GM), very loose to very dense Silty Rock Fragments with varying amounts of sand and cobbles (GM), loose to medium dense Silty Sand with varying amounts of rock fragments, with cobbles (SM). SPT N-values in the unit ranged from 4 blows per foot (bpf) to 75 bpf. Natural moisture content within the unit ranged from 3 to 18 percent and averaged 12 percent.

6.1.2 Pleistocene Sand and Gravel

The Pleistocene Sand and Gravel was encountered in all explorations except B-01, B-02, B-13, B-14, B-15, B-18, and TP-1, at depths ranging from 0.3 to 10 feet bgs. The unit generally consisted of very loose to very dense Silty Sand with varying amounts of gravel, with cobbles, with possible boulders (SM), Sandy Silt with varying amounts of gravel, with possible cobbles (ML). SPT N-values within the unit ranged from 1 to 36 bpf and averaged 7 bpf. Natural moisture content within the unit ranged from 11 to 42 percent, and averaged 21 percent. Particle size analysis on select samples indicated fines content ranging from 18 to 40 percent, averaging 32 percent. Three (3) Atterberg limits tests were performed on the unit. Two came back as nonplastic, while the third yielded a plasticity index of 5 percent, with a USCS designation of ML.

6.1.3 Decomposed Newberry Volcanics

The Decomposed Newberry Volcanics were encountered in borings B-02 and B-10 at depths ranging from 4.5 to 9 feet bgs. The unit generally consisted of Decomposed Basalt, which remolded to dense to very dense Silty Sand with varying amounts of rock fragments (SM). The two (2) SPTs attempted within the unit had N-values of 35 bpf and refusal.

6.1.4 Newberry Volcanics

The Newberry Volcanics were encountered in all borings and test pits, except B-01 and TP-1, at depths ranging from 0.5 to 12 feet bgs. The unit consisted of fresh to slightly weathered, weak to very strong (R2-R5) Basalt. The recovery ranged from 20 to 100 percent and averaged 95 percent. Rock Quality Designation (RQD) within the unit ranged from 0 to 100 percent, and averaged 87 percent.

Exhibit 6-1: Summary of Estimated Bedrock Surface Elevations and Depths

Exploration	Ground Surface Elevation (ft)	Depth to rock (ft)	Bedrock elevation (ft)
B-02	3730.6	5.3	3725.3
B-03	3728.5	5.5	3723.0
B-04	3727.2	11.5	3715.7
B-05	3725.0	9	3716.0
B-06	3725.7	10.2	3715.5
B-07	3724.9	7.1	3717.8
B-08	3724.8	8.5	3716.3
B-09	3719.7	11.8	3707.9
B-10	3721.4	12	3709.4
B-11	3722.4	9.5	3712.9
B-12	3724.4	10.4	3714.0
B-13	3728.3	2.25	3726.05
B-14	3732.0	4	3728
B-15	3728.3	0.5	3727.8
B-16	3727.5	12	3715.5
B-17	3718.8	6.7	3712.1
B-18	3718.3	2.8	3715.5
TP-2		4	
TP-3		7	

6.2 Groundwater

Shallow perched groundwater was encountered in both borings B-02 and B-10 at depths of 5.3 and 9.5 feet, respectively. Additionally, in boring B-04, a VWP was installed to allow for ongoing groundwater measurements. The VWP was installed 29.7 feet bgs. At the time of the last reading on April 3, 2025, no groundwater was present.

6.3 Soil Corrosivity

Analytical testing was performed to evaluate the corrosivity potential of the soil at the project site based on the soil pH, electrical resistivity, and chloride and sulfate concentrations, and guidelines in Section 10.7.5 of the American Association of State Highway and Transportation Officials (AASHTO) Load and Resistance Factor Design (LRFD) Bridge Design Specifications (AASHTO, 2024). Analytical testing was performed by Cooper Testing of Palo Alto, California, on samples from borings B-05 and B-16. Detailed analytical results are presented in Appendix B.

7 SEISMIC HAZARD EVALUATION

7.1 Site Class

The Seismic Site Class for the bridge and retaining wall seismic design criteria was developed based on the recommended procedure from the recently released AASHTO LRFD 10 (AASHTO, 2024). Prior to LRFD 10, bridge structures and retaining walls were typically designed for ground motions corresponding to a 1,000-year return period under "No Collapse" criteria. LRFD 10 now adopts a design approach based on a "limit state of incipient collapse," targeting a risk of approximately 1.5 percent over a 75-year period for ordinary structures. Since direct shear wave velocity measurements were not available at the project site, shear wave velocities were estimated based on SPT data and rock core uniaxial compressive strength test results. Our evaluation indicates that the most critical site class derived from Vs, Vs/1.33, and 1.3Vs corresponds to Site Class B. Site Class B is defined by rock having an average shear wave velocity between 3,000 and 5,000 feet per second (AASHTO, 2024).

7.2 Ground Motion Parameters

The ground motion parameters were obtained from the AASHTO-USGS Seismic Design Ground Motion Database (AASHTO, 2023).

Exhibit 7-1: Design Response Spectrum for Site Class B

Period (s)	Spectral Acceleration (g)
0	0.11
0.01	0.11
0.02	0.113
0.03	0.124
0.05	0.158
0.075	0.203
0.1	0.234
0.15	0.244
0.2	0.225
0.25	0.2
0.3	0.181
0.4	0.152
0.5	0.131
0.75	0.101
1	0.0835
1.5	0.0613
2	0.0501
3	0.0354
4	0.0272
5	0.0215
7.5	0.0154
10	0.0133

NOTES:
1 g = acceleration due to gravity; s = seconds.

7.3 Geo-Seismic Hazards

Seismic hazards considered in the evaluation include ground shaking, liquefaction and associated effects (e.g., flow failure, lateral spreading, and settlement), slope instability, landslide, fault rupture, tsunami, and seiche. The primary hazard at this site is ground shaking. According to the Oregon Department of Geology and Mineral Industries (DOGAMI), Oregon HazVu: Statewide Geohazards Viewer, the site will experience moderate earthquake shaking in the event of an earthquake.

We did not evaluate the site for liquefaction potential, as the static groundwater at the site is anticipated to be below the top of bedrock. Therefore, we do not anticipate liquefaction hazards, lateral spreading, and liquefaction-induced settlement at this site.

The Sisters Fault Zone has the closest faults to the site at approximately 0.6 miles to the east. The slip rate of the Sisters Fault is approximately 0.2 mm/year. Due to the low activity of nearby faults and the distance between the faults and the site, we anticipate the risk of fault rupture at the site to be low, as well as the potential for seismically induced slope instability and landslides. Seismically induced tsunamis and seiches are also non-hazards at this site.

8 BRIDGE FOUNDATION DESIGN RECOMMENDATIONS

8.1 General

Design recommendations are based on the preliminary plans, bridge progress plans, and additional information provided by DOWL, the field explorations, and our review of the available existing information. If foundation types or configurations change after issuance of this report, Shannon & Wilson should be contacted to provide updated recommendations.

We understand that the bridge foundations and walls will be designed considering the following manuals and specifications:

- ODOT GDM, May 2024;
- ODOT Bridge Design Manual (BDM), October 2024;
- ODOT Oregon Standard Specifications for Construction (OSSC), 2024; and
- AASHTO LRFD Bridge Design Specifications, 10th Edition.

Based on the subsurface conditions encountered during the field explorations, we performed engineering analyses to develop conclusions and recommendations for the proposed bridge foundations and retaining walls. Geotechnical construction considerations were also developed for the bridge foundations and retaining walls.

8.2 Grade Separation Alternatives

We understand the project team is evaluating both an undercrossing as well as an overcrossing of the BNSF railroad. The following paragraphs discuss the advantages and disadvantages of each option.

An undercrossing would require a maximum cut of approximately 25 feet below the existing grade. The cut would need to support both loose sand and gravel overburden soils, as well as relatively hard basalt bedrock. This combination of loose/non-cohesive soils and hard rock complicates the selection of wall types. Typical cut walls, such as soldier pile tieback walls, would be difficult to install due to the hard bedrock. and the non-cohesive nature of the Pleistocene Sand & Gravel would make soil nail walls risky, as raveling may occur between lifts. The overburden soil would most likely need to be laid back at a 1.5 Horizontal to 1 Vertical (1.5H:1V) slope, rock excavation complete, and rock cuts reinforced with rock anchors. This would require fill walls to be constructed above the rock cut. A conceptual diagram of the undercrossing option is provided in Exhibit 8-1. An alternative to reduce the amount of rock excavation would be to have a grade-separated pedestrian and bike path near the bedrock contact. Additionally, the undercrossing option would result in a low point requiring stormwater facilities with a pumping system. An approximate final grade for the undercrossing option is provided on the subsurface profile in Figure 2.

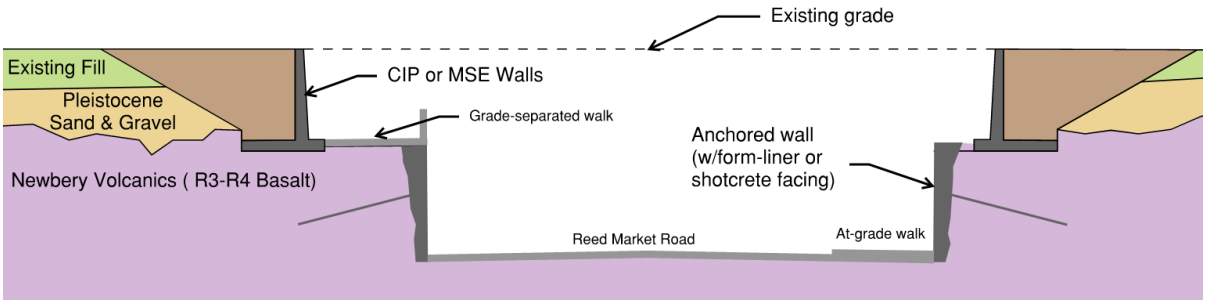

Exhibit 8-1: Conceptual cross-section for undercrossing option (not to scale).

The overcrossing option would require fill walls up to 35 feet in height. These walls would likely be placed on existing fill or Pleistocene Sand & Gravel. Given the variability of the fill and native overburden soil, the walls need to be able to tolerate some differential settlement and would likely be Mechanically Stabilized Earth (MSE) walls. However, at the abutments, the railroad does not allow the use of Mechanically Stabilized Earth (MSE) walls adjacent to their tracks, therefore, the overburden soil would need to be removed, and Cast-in-Place (CIP) walls constructed to support the bridge and retain the fill at the abutments. It should be noted that MSE Wall settlement would happen immediately, and the magnitude would be less than three inches. Exhibit 8-2 provides a conceptual cross-section of Reed Market through approach fill MSE walls.

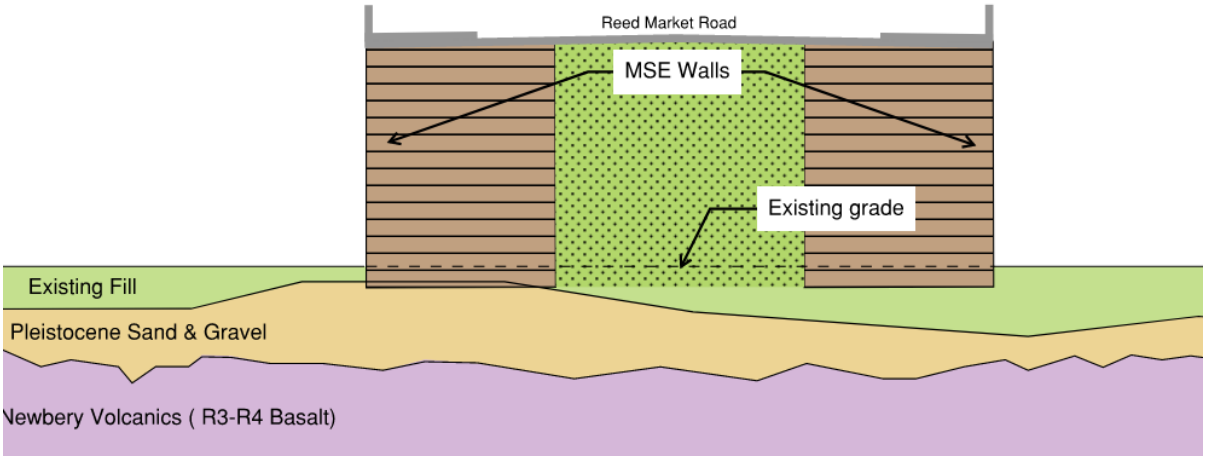

Exhibit 8-2: Conceptual cross-section for overcrossing option (not to scale).

We understand that settlements in excess of 2 feet were measured at a railroad overcrossing project 25 miles to the south. The large magnitude settlements of the approach embankments lead to the bridge structure needing to be removed, and the project not being completed. The site was located south of the Newbery basalt flows on a deep ancient lake bed. Given the shallow basalt at the proposed Reed Market Overcrossing, lack of groundwater in the overburden soil, and the non-cohesive nature of the overburden, the risk of large magnitude consolidation settlement is very low. Some elastic settlements will occur in the overburden, however, they will occur as fill is placed. Further, if the bridge spread footings are supported on bedrock, bridge super-structure settlements are estimated to be less than half an inch.

Based on our conversations with the design team, we understand the preferred alternative is the overcrossing option. The selection of an overcrossing is based on many factors, including non-geotechnical considerations; however, some significant geotechnical-related considerations include the large amount of difficult rock excavation and the complexity of the retaining structures needed for the undercrossing option.

8.3 Bridge Foundation Types and Alternatives

The selection of an appropriate foundation system for the proposed bridge structure is dependent upon several factors, including foundation resistance, tolerance to total and differential settlement resulting from static loads, and construction considerations. We considered driven piles, drilled shafts, MSE wall abutment, and spread footings for the bridge foundations. However, the foundation options were limited by the following constraints:

- Driven piles are not feasible due to shallow bedrock (less than 10 feet).

- Drilled shafts would require significant embedment into very hard bedrock, increasing cost.
- The railroad does not allow MSE walls adjacent to their track; therefore, spread footings on MSE wall abutments were eliminated.

Given a full closure of Reed Market is permitted, large footing excavations can be made to bedrock with minimal or no shoring. Therefore, spread footing foundations are likely the most cost-effective option with the lowest risk to the construction schedule.

8.4 Spread Footing and Abutment Design Recommendations

8.4.1 General

Based on borings B-05, B-06, B-07, and B-08, the estimated depth of the basalt bedrock (Basalt of the Newberry Volcano) at both Bent 1 and Bent 2 locations is approximately between 7 feet to 10 feet bgs. Due to the loose native soil (Pleistocene Sand and Gravel) overlying the bedrock, we recommend that the spread footings either be placed on the bedrock or the overburden soil be removed and replaced with Granular Structure Backfill (OSSC Section 00510.13) to the bottom of footing elevation. We recommend that the project special provisions modify Section 00510.13 to limit fines content to 5 percent for Granular Structure Backfill.

8.4.2 Subgrade Preparation and Footing Embedment

We understand that the design team would like to limit the abutment wall height by placing the abutment spread footing on the Granular Structure Backfill as discussed above. We recommend that Granular Structure Backfill in accordance with ODOT OSSC, Section 00510.13, be placed directly on undisturbed basalt bedrock to support the spread footings. We recommend that the project special provisions modify Section 00510.13 to require a maximum of 5 percent material by weight passing the number 200 sieve for Granular Structure Backfill. The Granular Structure Backfill should be placed after rock excavation and removal of loose or weathered rock fragments. The footings may then be constructed and poured directly on the compacted Granular Structure Backfill. We assume that the footings will be placed on the Granular Structure Backfill.

The exposed rock surface at the base of the excavation should extend beyond the edge of the footing a distance equal to the thickness of the Granular Structure Backfill between the bottom of the footing and bedrock surface, as shown in Exhibit 8-3.

The Granular Structure Backfill should be properly compacted to provide a stable and uniform bearing surface per OSSC Section 00510.46a.

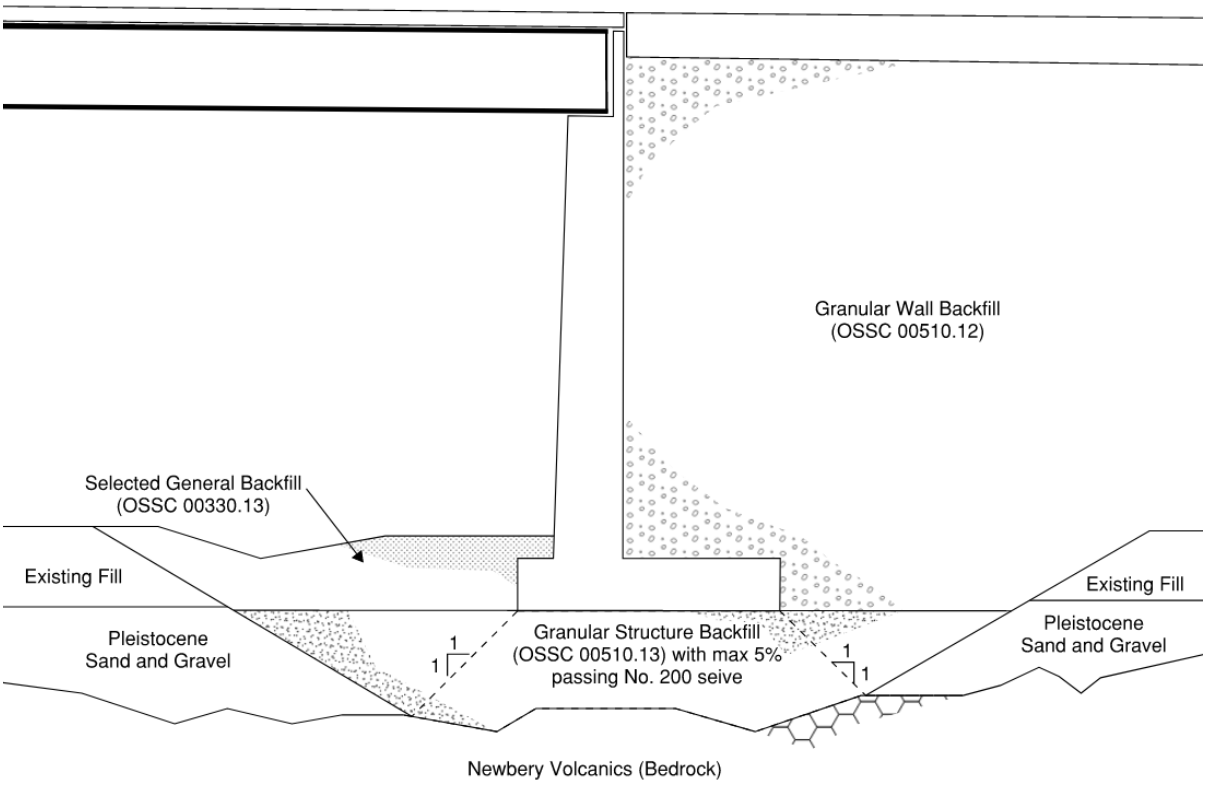

Exhibit 8-3: Granular Structure Backfill and Granular Wall Backfill limits for spread footing abutments.

8.4.3 Spread Footing Bearing Resistance, Settlement, & Sliding

We performed a bearing resistance analysis in accordance with the ODOT GDM (ODOT, 2024) and AASHTO LRFD (AASHTO, 2024). In LRFD design, the strength and extreme event limit state bearing resistances are obtained by selecting appropriate soil strength parameters and computing a nominal bearing pressure at which shear failure of the bearing soil would likely occur. The nominal bearing resistance multiplied by the appropriate resistance factor gives the factored bearing resistance. We recommend a nominal bearing resistance of 10 kips per square foot (ksf). We estimate the static settlement of the abutment will be less than 1 inch under the service limit state loads. Resistance factors of 1.0, 0.45, and 1.0 are recommended for the service, strength, and extreme event limit states, respectively.

Lateral sliding resistance was calculated in accordance with the ODOT GDM and AASHTO LRFD. The nominal frictional sliding resistance can be expressed as the vertical load multiplied by a coefficient of 0.58 for cast-in-place footings on Granular Structure Backfill. A resistance factor of 0.8 should be used to calculate factored lateral resistance for the strength limit state and a resistance factor of 1.0 for the extreme event limit state.

A partial nominal equivalent passive fluid pressure of 180 pounds per cubic foot (pcf)may be used for the design. Partial passive pressure is recommended because a large amount of wall movement is necessary to mobilize full passive resistance. A resistance factor of 0.5 should be applied in the calculation of passive soil resistance.

8.4.4 Global Stability

8.4.4.1 Abutment and Wing Wall Global Stability

Global stability of the bridge abutment was evaluated along a cross section located at the Reed Market centerline, oriented parallel to the bridge alignment and crossing the railroad. The total height of the abutment, including the footing, is approximately 36 feet, with approximately 30 feet exposed above finished grade. The conceptual profile at abutment is shown in Exhibit 8-2. Soil parameters used in the analyses were developed based on the results of field explorations and laboratory testing.

We conducted slope stability analyses for the proposed bridge abutments using the computer program SLOPE/W, Version 24.1.0 (Geo-Slope International, 2024). The SLOPE/W program employs limit equilibrium methods in accordance with the ODOT GDM (ODOT, 2024). The Morgenstern-Price slope stability analysis method was used for rotational and irregular surface failure mechanisms. The analyses were performed at the proposed bridge abutment locations for static and seismic conditions.

A live load for roadway traffic of 250 pounds per square foot (psf) was assumed for the static condition at the bridge abutments. For the seismic condition, pseudo-static procedures described in the ODOT GDM (ODOT, 2024), Chapter 13, were followed. Horizontal acceleration coefficients equal to one-half of the site Peak Ground Accelerations ($0.5 \times F_{pga} \times PGA$) were used. For our seismic slope stability analyses, we used a horizontal seismic coefficient of 0.055 g for the "Risk-Targeted" criteria.

The ODOT GDM (ODOT, 2024) requires that slopes supporting bridge foundations be designed with a maximum resistance factor for global stability of 0.65, equivalent to a Factor of Safety (FS) of 1.5, for static conditions. For seismic analyses, a maximum resistance factor of 0.9, or an FS of 1.1, is required.

Based on our analyses, the proposed bridge abutments will satisfy the minimum global stability FS requirements for static and seismic conditions. The results of our global stability analyses for the bridge abutments are presented in Appendix C, Global Stability Analysis Results, and summarized in Exhibit 8-4.

Exhibit 8-4: Global Stability Analysis Results Summary

Type of Analysis	Abutment
Static	1.7
"Risk-targeted" Seismic Condition	1.7

8.4.4.2 Potential Impact of Temporary Excavation on Railroad

Temporary global stability was evaluated for a cut slope adjacent to the railroad to provide a proof of concept. Our analysis assumed the closest part of the cut slope would be no closer than 30 feet from the existing track and would be 8 feet deep. Per American Railway Engineering and Maintenance-of-way Association (AREMA, 2024), a uniform live load of 1,042 psf was applied over the railway track alignment to represent the railroad surcharge.

Based on our analyses, the proposed footing excavation is viable without impact to the railroad. However, temporary slope and shoring design are the sole responsibility of the Contractor, and therefore, the Contractor should perform a separate stability evaluation based on their proposed shoring and/or temporary grading.

8.4.5 Lateral Earth Pressures for Abutments and Wing Walls

For both bents, the wing walls will angle approximately 90 degrees back from the footing wall and are approximately 25 feet in length. The abutment wall is approximately 35 feet in height and 100 feet in length.

The lateral earth pressures on the abutments and wing walls depend on the type of wall (i.e., yielding or non-yielding), the type and method of placement of backfill against the wall, the magnitude of surcharge weight on the ground surface adjacent to the wall, the slope of the backfill and the design criteria. We recommend that at-rest earth pressures (non-yielding wall) be used unless wall deformations of up to two inches can be tolerated.

Based on the structural design information and the above assumptions, the lateral earth pressures on the walls were developed according to the ODOT GDM (ODOT, 2024) and AASHTO LRFD (AASHTO, 2024). The static lateral earth pressure acting on walls consists of two components: (1) static earth pressure and (2) static surcharge pressure. The seismic lateral earth pressure on walls consists of three components: (1) static earth pressure, (2) static surcharge pressure, and (3) seismic earth pressure. A k_h equal to the site peak ground acceleration (F_{pga} x PGA), A_s, was used to determine the seismic earth pressure for non-yielding walls. A k_h equal to 1/2 of A_s was used to determine the seismic earth pressure for yielding walls, where 1 to 2 inches of lateral deformation is acceptable. The distributions of these lateral pressures are shown in Figure 4, Recommended Lateral Pressures for Abutments and Wing Walls.

8.5 Spread Footing and Abutment Construction Considerations

8.5.1 Spread Footing Subgrade and Preparation

We recommend that a layer of Granular Structure Backfill in accordance with ODOT OSSC, Section 00510.13, be placed directly on undisturbed basalt bedrock to support the spread footings. We also recommend that the project special provisions modify Section 00510.13 to require a maximum of 5 percent material by weight passing the number 200 sieve for Granular Structure Backfill. The Granular Structure Backfill should be placed after rock excavation and loose or weathered rock fragments are removed per OSSC section 00510.46(d). The footings may then be constructed and poured directly on the compacted Granular Structure Backfill. We assume the footings will be at least 3 feet thick. The Granular Structure Backfill layer should extend across any overbreak area and be compacted to provide a stable and uniform bearing surface. Based on the GPR survey, no lava tubes were detected, however, lava tubes are known to be present in the Newbery Volcanics formation. If discovered, any voids or tubes should be backfilled with Controlled Lower Strength Material per OSSC Section 00442.

We recommend that the subgrade preparation for the footings be observed by a Geotechnical Engineer of Record to confirm the quality and conditions of the basalt rock to meet design requirements.

8.5.2 Subdrainage

Suitable drainage for abutment and wingwalls can be provided by Granular Wall Backfill material and a wall base subdrain system consisting of a 6-inch-diameter perforated or slotted drain pipe wrapped in an envelope of filter material at least 12 inches thick and confined by a separation geotextile. The filter material is specified in Section 02610.10(a) of the ODOT OSSC. The subdrain should convey any collected seepage to the end of the wall, and daylight at low spots below the wall elevation, or be connected to the site stormwater facility.

8.5.3 Backfill Material and Compaction

Within 100 feet of the bridge abutments, except within MSE wall reinforcement zones, the backfill should meet the requirements of Granular Wall backfill (OSSC 00510.12). Backfill placed between the MSE wall reinforcement zones greater than 100 feet from the bridge abutment may consist of either Selected General Backfill or Borrow Material. Backfill within the bridge zone should be placed and compacted in accordance with OSSC, Section 00510.48. However, heavy compaction equipment should not be allowed closer than 3 feet to the retaining wall or existing structures to prevent high lateral earth pressures and/or the

causing of wall yielding and/or damage. Required compaction of wall backfill within 3 feet of the walls shall be obtained using hand-operated compaction equipment, such as a vibrating plate compactor.

9 MSE RETAINING WALL DESIGN RECOMMENDATIONS

9.1 General

We understand that MSE walls are proposed to retain the approach embankments for the bridge, extending from SE American Lane to SE Quill Place and potentially along 9th St. We understand that, at the intersection of SE Reed Market Rd and SE 9th St, the final configuration has not been determined; options under consideration include a grade separation—disconnecting SE 9th St from SE Reed Market Rd—or construction of an MSE wall to maintain connectivity between the two roadways. The proposed MSE wall along SE Reed Market Rd is approximately 1,300 feet in total length, with a maximum height of approximately 35 feet. A minimum embedment depth of 2 feet is assumed to be at the base of the MSE wall.

In accordance with standard design procedures outlined in the ODOT GDM, we have provided design recommendations for the proposed MSE walls, including lateral earth pressures, nominal bearing resistance, estimated settlements, evaluation of wall global stability, and foundation subgrade preparation. We understand that the selection of wall types and specific wall design items, including internal wall stability, external sliding and overturning, and final wall configuration, will be performed by the wall designer. Final design plans and specifications should be provided for our review. The following sections present our design evaluations and recommendations.

9.2 MSE Wall Design Parameters

As recommended by the ODOT GDM, Section 16.6.4, the minimum soil reinforcement length should be 70 percent of the wall height (0.7H) as measured from the leveling pad, or 8 feet, whichever is greater. The reinforced material should meet the requirements provided in OSSC, Section 00596A.11(b) – MSE Granular Wall Backfill. Backfill should be placed and compacted in accordance with OSSC, Section 00596A.47. Retained fill (Granular Wall Backfill, Selected General backfill, or Borrow Material) placed behind the reinforced material should meet the specifications provided in ODOT OSSC, Section 00510.12 (Granular Wall Backfill), Section 00330.13 (Selected General Backfill or Section 00330.12 (Borrow Material). The estimated soil parameters for MSE wall design are presented in Exhibit 9-1.

Exhibit 9-1: MSE Walls Geotechnical Design Parameters

Material Type	Unit Weight (pcf)	Internal Friction Angle (degrees)	Cohesion
Reinforced Material (MSE Granular Wall Backfill)	130	34	0
Retained Fill (Borrow Material or Select General Backfill)	120	32	0
Foundation Soil	110	27	0

NOTES:

1 pcf = pounds per cubic foot.

Lateral pressures on the MSE wall should be calculated using soil parameters of retained fill, presented in Exhibit 9-1.

The MSE walls should be embedded in accordance with Section 16.6.5 of the ODOT GDM, with a minimum embedment of 2 feet below the lowest adjacent final grade in front of the wall, or one-tenth the wall's total height as measured from the top of the leveling pad to the roadway grade, whichever is greater.

9.3 Lateral Earth Pressure

The lateral earth pressures on the MSE walls depend on the type of wall (i.e., yielding or non-yielding), the type and method of placement of backfill against the wall, the magnitude of surcharge weight on the ground surface adjacent to the wall, the slope of the backfill, and the design criteria. We recommend that active (yielding wall) earth pressures be considered at the MSE walls.

Based on the structural design information and the above assumptions, the lateral earth pressures on the walls were developed according to the ODOT GDM (ODOT, 2024) and AASHTO LRFD (AASHTO, 2024). The static lateral earth pressure acting on walls consists of two components: static earth pressure and static surcharge pressure. The seismic lateral earth pressure on walls consists of three components: static earth pressure, static surcharge pressure, and seismic earth pressure. A k_h equal to 1/2 of A_s was used to determine the seismic earth pressure for yielding walls, where 1 to 2 inches of lateral deformation is acceptable. The distributions of these lateral pressures are shown in Figure 5, Recommended Lateral Pressures for MSE Walls.

9.4 Global Stability Analysis

We conducted slope stability analyses for the proposed bridge MSE walls using the same procedures outlined in section 8.4.2.

The ODOT GDM requires that walls within 100 feet of a bridge structure be designed with a maximum resistance factor for global stability of 0.65, equivalent to a FS of 1.5, for static conditions. For seismic analyses, a maximum resistance factor of 0.9, or a FS of 1.1, is required.

We developed three critical cross-sections for global stability for MSE walls. The wall embedment followed the guidelines explained in section 9.2. MSE wall reinforcement length was assumed to be 70 percent of the total wall height (0.7H) as measured from the top of the leveling pad to roadway grade, or 8 feet, whichever was greater. Generalized subsurface conditions and soil parameters were determined from the results of the field explorations and laboratory testing.

Based on our analyses, the proposed MSE walls designed following the recommendations presented in this report will satisfy the minimum global stability FS requirements for all cases. The results of our global stability analyses for MSE walls are presented in Appendix C and are summarized in Exhibit 9-2.

Exhibit 9-2: MSE Walls Global Stability Summary

Type of Analysis	Static	"Risk-Targeted" Seismic Condition
Section 1 - North	1.7	1.6
Section 1 - South	1.7	1.7
Section 3 - North	1.6	1.5
Section 3 - South	1.6	1.4
Section 4 - North	1.7	1.6
Section 4 - South	1.7	1.6

9.5 MSE Wall Lateral Resistance

Resistance to lateral movement for an MSE wall consists of sliding friction. Passive soil pressures are neglected when calculating lateral resistance, as required by guidelines in the ODOT GDM. We recommend that the sliding resistance evaluation follow the general requirements for an MSE wall in the ODOT GDM and AASHTO LRFD Bridge Design Specifications, Section 11. The nominal friction resistance may be expressed as the vertical load (at the base of the wall) multiplied by the coefficient of friction. We calculated the frictional sliding resistance coefficient for the wall, assuming the reinforced material is sliding on a 6-inch Granular Structure Backfill leveling pad. We recommend using a coefficient of friction equal to 0.67 to calculate nominal sliding resistance for MSE-reinforced soil mass on approved subgrade. For LRFD design, a resistance factor of 1.0 should be used

in the calculation of frictional sliding resistance for the strength and extreme event limit states.

9.6 MSE Wall Foundation Bearing Resistance and Settlement

Based on the subsurface conditions, we expect that the majority of the proposed MSE walls will be founded on Fill or Pleistocene Sand and Gravel. We recommend that the MSE walls have a minimum embedment as specified in section 9.2. We performed bearing resistance analysis per the ODOT GDM and AASHTO LRFD Bridge Design Specifications to determine the nominal bearing resistance. The nominal bearing resistance multiplied by the appropriate resistance factor gives the factored bearing resistance. The factored bearing resistances for the strength and extreme event limit states for MSE walls, as a function of reinforcement length, are presented in Figure 6, Factored Bearing Resistance Versus MSE Reinforcement Width Rectangular Footing, L/B = 10.

We estimate that the immediate settlement of MSE walls founded on Pleistocene Sand and Gravel will be less than 3 inches based on a recommended nominal bearing resistance for the service limit state of 5.0 ksf. Differential settlement along a 100-foot wall alignment is estimated to be approximately 2 inches.

9.7 MSE Wall Drainage

Proper drainage is necessary for the long-term stability of the MSE walls. Backfill placed immediately behind the MSE wall reinforcement zone should be free-draining, granular material in accordance with ODOT OSSC, Section 00510.12. Specifically, MSE wall internal drainage design should be in accordance with ODOT GDM, Section 16.6.8.

9.8 MSE Wall Construction Considerations

9.8.1 General

This section contains construction considerations, including wall excavation and foundation subgrade preparation. Earthwork should be performed in accordance with ODOT OSSC, Section 00300.

9.8.2 MSE Wall Type

Due to the anticipated total and differential settlements discussed in Section 9.6, we recommend the use of MSE walls with small precast concrete panel facings (panel front face area < 30 square feet), in accordance with ODOT GDM Section 16.3.5, Criteria B, which applies when the expected settlement exceeds the acceptable tolerance and the wall system must be capable of accommodating the movement.

9.8.3 Excavation and Subgrade Preparation

Retaining wall subgrade preparation will include: (1) clearing and grubbing; and (2) removal of existing structures, pavement, and underground utilities. These construction activities should generally be accomplished in accordance with ODOT OSSC, Section 00300. We expect that site excavation could be accomplished using conventional excavating equipment.

After site stripping and preparation activities are completed, the exposed subgrade to receive fill should be proof-rolled with a fully-loaded 10- to 12-yard dump truck or similar heavy rubber-tired construction equipment to identify soft, loose, or unsuitable areas. The proof-roll should be conducted prior to MSE wall and embankment construction.

The site stripping and proof-roll should be observed by a qualified Geotechnical Engineer or representative, who should determine stripping depth, evaluate the suitability of the subgrade, and identify areas of yielding. If loose and/or wet, soft soil zones are identified during proof-rolling, the soils should be removed and replaced with compacted structural fill in accordance with ODOT OSSC, Section 00331, Subgrade Stabilization.

Disturbance of subgrade soil due to construction equipment and activities could affect the support of the proposed walls and embankment. The Contractor should take necessary steps to protect the subgrade from becoming disturbed.

9.8.4 MSE Wall Leveling Pad

A leveling pad is an unreinforced concrete pad generally used to begin the facing construction if concrete fascia panels are used; this allows a uniform, level starting point to place the fascia panels and on which to build upward. The surface of the leveling pad should be smooth and horizontal, both side-to-side and front-to-back, to ensure the fascia panel courses are level.

10 GENERAL CONSTRUCTION CONSIDERATIONS

10.1 Site Preparation

Site preparation will include: (1) clearing, grubbing, and roadside cleanup, (2) removal of existing structures and underground utilities, and (3) subgrade preparation and excavation. These construction activities should generally be accomplished in accordance with ODOT OSSC, Section 00300.

After site stripping and preparation activities are completed, the exposed subgrade to receive fill should be proof-rolled with a fully loaded, 10- to 12-yard dump truck (or similar heavy rubber-tired construction equipment) to identify soft, loose, or unsuitable areas. The proof-roll should be conducted prior to the approach fill construction.

The site stripping and proof-roll should be observed by a qualified Geotechnical Engineer or representative, who should determine stripping depth, evaluate the suitability of the subgrade, and identify areas of yielding. If loose and/or wet, soft soil zones are identified during proof-rolling, the soils should be removed and replaced with compacted structural fill.

Disturbance of subgrade soil due to construction equipment and activities could affect the support of the proposed walls and embankment. The Contractor should take necessary steps to protect the subgrade from becoming disturbed.

10.1.1 Retained Backfill Material

Where feasible, existing Portland Cement Concrete (PCC) pavement removed during site preparation may be processed on-site to produce material suitable for use as Select General Backfill. The pavement should be broken down to a maximum particle size of 2 inches. This material may be used in accordance with ODOT specifications for embankment construction, provided it is free of deleterious debris (e.g., wood, organics, excessive fines, or metal) and is placed and compacted in accordance with project requirements. Crushed concrete should not be used within the MSE wall reinforced zone or in contact with MSE wall reinforcements. The use of processed pavement as backfill should be approved by the Geotechnical Engineer of Record based on visual, procedural compaction inspection. If crushed concrete material is not available or not suitable, imported borrow conforming to ODOT specifications and project special provisions should be used.

10.1.2 Rock Excavation

Based on the anticipated foundation elevations and the results of field exploration and laboratory testing, significant rock excavation is not anticipated for this project. The basalt bedrock at the footing subgrade appears to be near the desired bearing elevation and is characterized by unconfined compressive strengths ranging from 3,154 to 12,320 pounds per square inch (psi), corresponding to a rock hardness classification of R2 to R4.

Although conventional excavation methods are expected to be sufficient, minor trimming or removal of loose or weathered rock fragments may be required to achieve a clean and stable bearing surface. Should localized hard zones be encountered that cannot be removed with conventional equipment, limited use of pneumatic breakers may be considered. Rock

excavation using explosives or chemical methods is not anticipated and is not recommended due to proximity to the existing railway and adjacent structures.

10.2 Temporary Cut and Fill Slopes

Temporary cut slopes are typically the responsibility of the Contractor and should comply with applicable local, state, and federal safety regulations, including the current Occupational Safety and Health Administration (OSHA) Excavation and Trench Safety Standards. For general guidance, we suggest that temporary construction slopes be made at 1H:1V or flatter. In areas of loose fills, very soft soil, or groundwater seepage, flatter slopes are likely to be required.

11 LIMITATIONS

The analyses, conclusions, and recommendations contained in this report are based on site conditions as they presently exist, and further assume that the explorations are representative of the subsurface conditions throughout the site; that is, the subsurface conditions everywhere are not significantly different from those disclosed by the explorations. If subsurface conditions different from those encountered in the explorations are encountered or appear to be present during construction, we should be advised at once so that we can review these conditions and reconsider our recommendations, where necessary. If there is a substantial lapse of time between the submission of this report and the start of construction at the site, or if conditions have changed because of natural forces or construction operations at or adjacent to the site, we recommend that we review our report to determine the applicability of the conclusions and recommendations.

Within the limitations of scope, schedule, and budget, the analyses, conclusions, and recommendations presented in this report were prepared in accordance with generally accepted professional geotechnical engineering principles and practice in this area at the time this report was prepared. We make no other warranty, either express or implied. These conclusions and recommendations were based on our understanding of the project as described in this report and the site conditions as observed at the time of our explorations.

Unanticipated soil conditions are commonly encountered and cannot be fully determined by merely taking soil samples from test borings. Such unexpected conditions frequently require that additional expenditures be made to attain a properly constructed project. Therefore, some contingency fund is recommended to accommodate such potential extra costs.

This report was prepared for the exclusive use by the City, DOWL, and their design team for the proposed Reed Market Corridor Study. The data and report should be provided to the Contractors for their information, but our report, conclusions, and interpretations should not be construed as a warranty of subsurface conditions included in this report.

The scope of our present work did not include environmental assessments or evaluations regarding the presence or absence of wetlands, or hazardous or toxic substances in the soil, surface water, groundwater, or air, on or below or around this site, or for the evaluation or disposal of contaminated soils or groundwater should any be encountered.

Shannon & Wilson has prepared and included in "Important Information About Your Geotechnical/Environmental Report" to assist you and others in understanding the use and limitations of our reports.

12 REFERENCES

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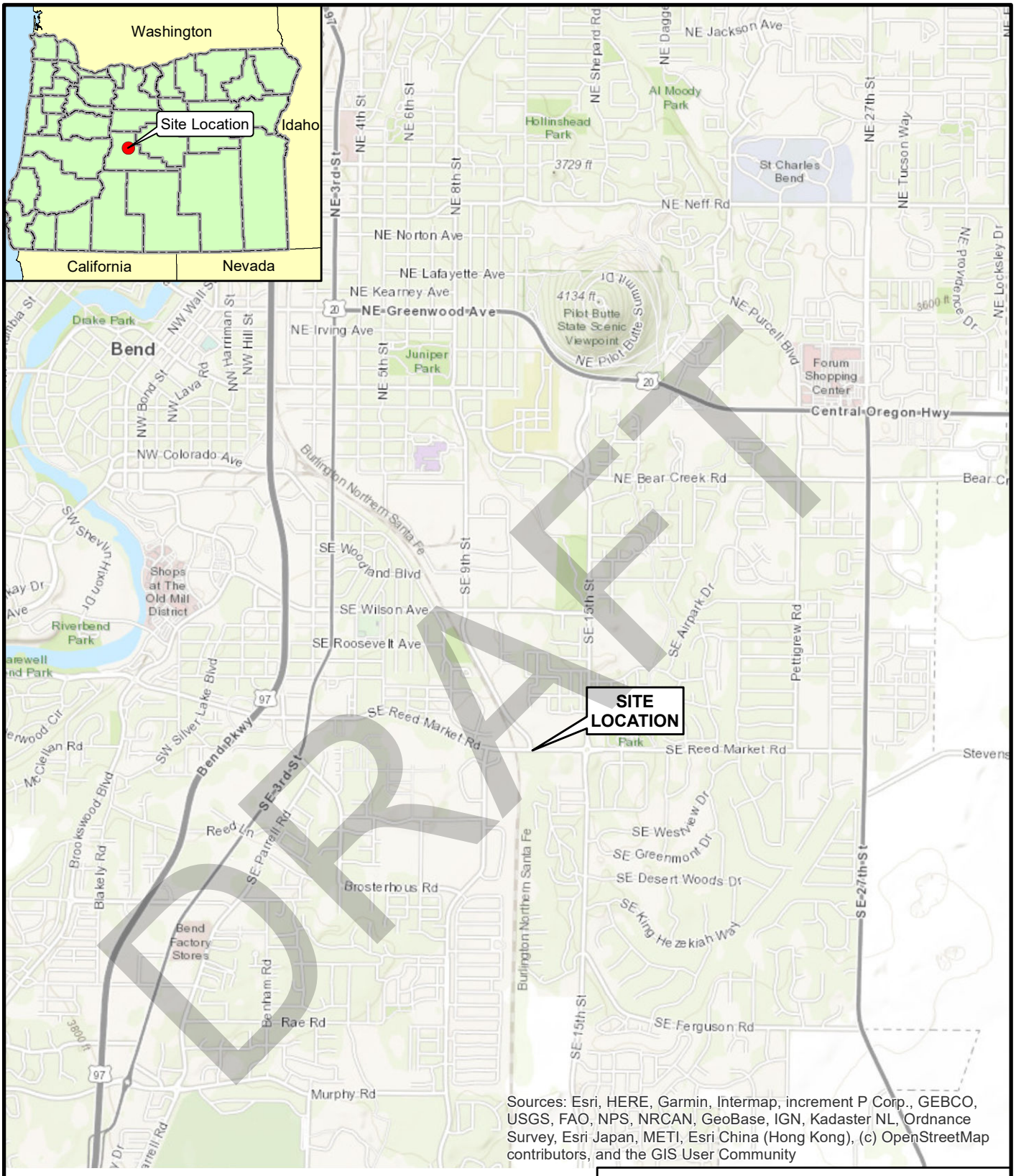

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0 0.25 0.5 1

Scale in Miles

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Reed Market Corridor Study
Bend, Oregon

VICINITY MAP

May 2025 113462

SHANNON & WILSON | **FIG. 1**

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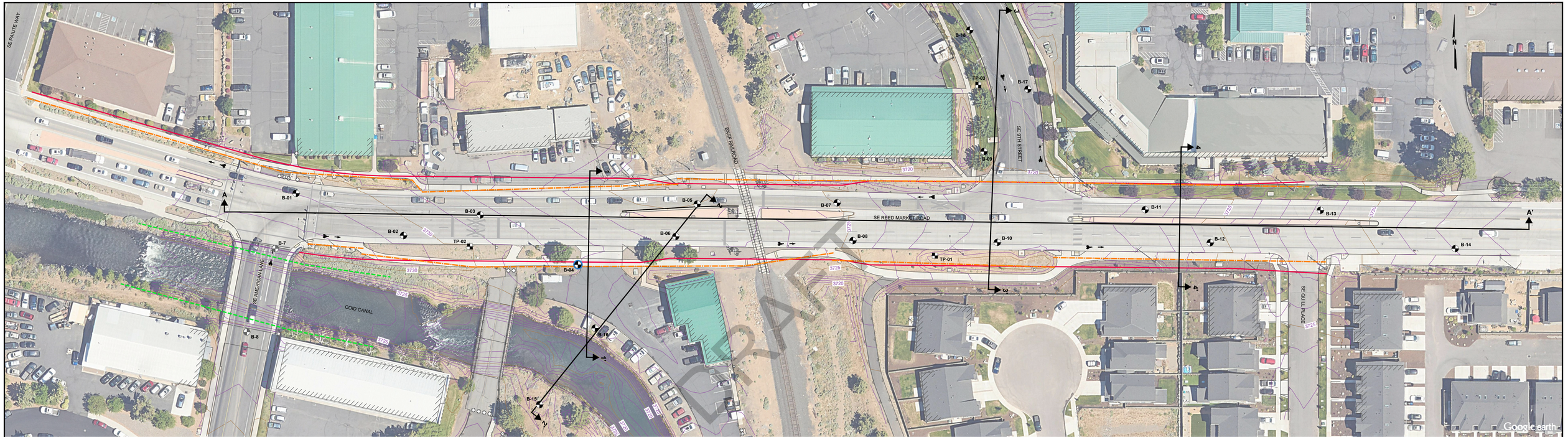

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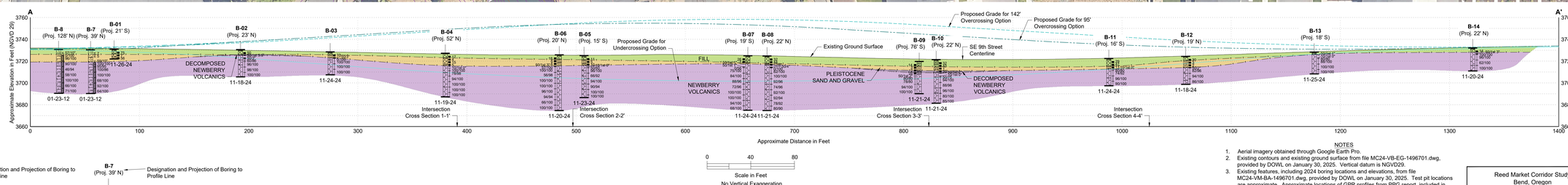
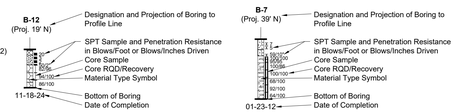


LEGEND

- B-01 — Designation and Location of Boring
- B-04 — Designation and Location of Boring with Piezometer
- TP-01 — Designation and Approximate Location of Test Pit
- B-7 — Designation and Location of Previous Boring (Shannon & Wilson, 2012)
- Approximate Location of Ground Penetrating Radar (GPR) Profile
- Approximate Location of Electrical Resistivity Tomography (ERT) Profile (2012)
- A — A' — Designation and Location of Interpretive Subsurface Profile or Cross Section
- Proposed Reed Market Road Retaining Wall Alignment (Extents May Vary)



NOTES

1. Aerial imagery obtained through Google Earth Pro.
2. Existing contours and existing ground surface from file MC24-VB-EG-1496701.dwg, provided by DOWL on January 30, 2025. Vertical datum is NGVD29.
3. Existing features, including 2024 boring locations and elevations, from file MC24-VM-BA-1496701.dwg, provided by DOWL on January 30, 2025. Test pit locations are approximate. Approximate locations of GPR profiles from PPG report, included in Appendix A.
4. Profile generalized from materials observed in borings. Variations may exist between profile and actual conditions. See Appendix A for complete boring logs and explanations of symbols.
5. Proposed overcrossing grades and wall alignments from files Reed Market Wall Alignments.xml and Reed Market Wall and Centerline Alignments and Profiles.xml, provided by DOWL on April 1, and April 2, 2025, respectively. Proposed undercrossing grade from file Reed Market 9th Alignment & profile.xml, provided by DOWL on April 16, 2025.

Reed Market Corridor Study
Bend, Oregon

SITE AND EXPLORATION PLAN AND INTERPRETIVE SUBSURFACE PROFILE A-A'

May 2025 | 113462

SHANNON & WILSON | FIG. 2

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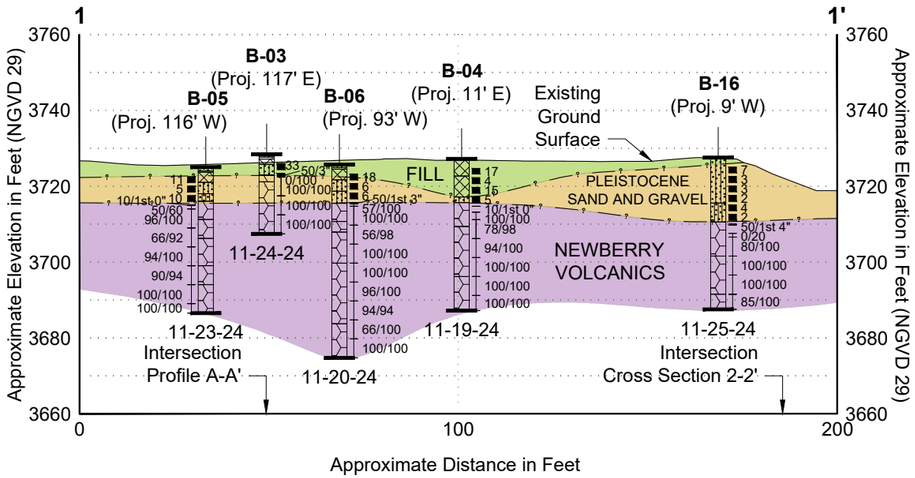

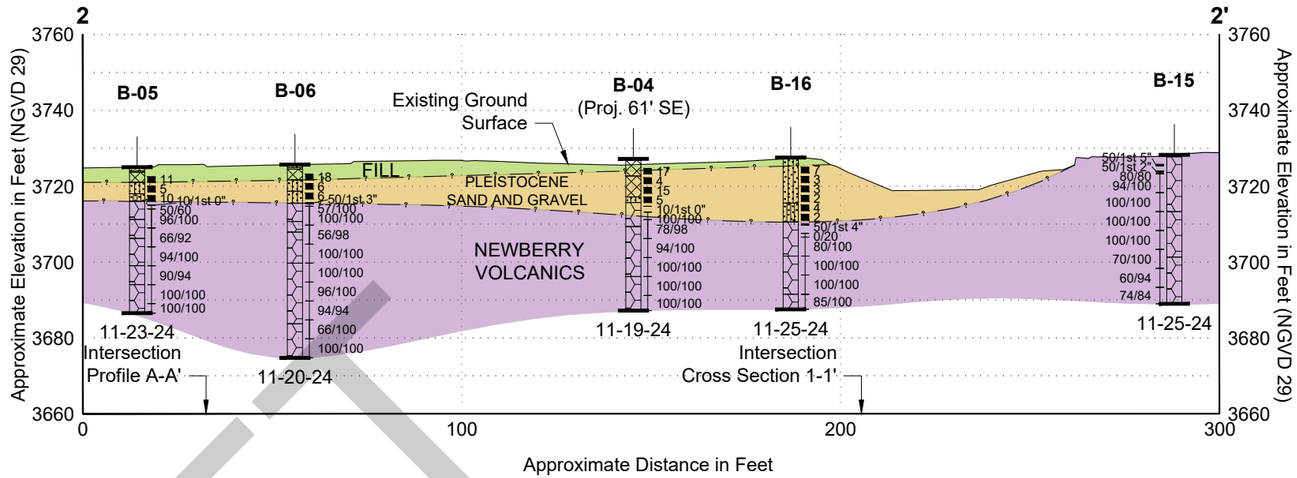

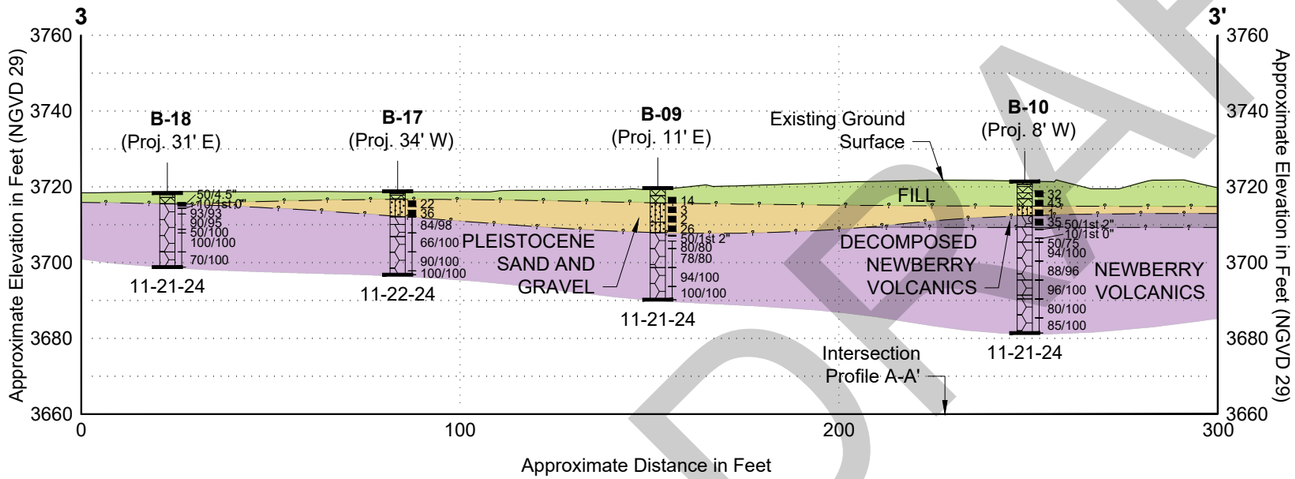

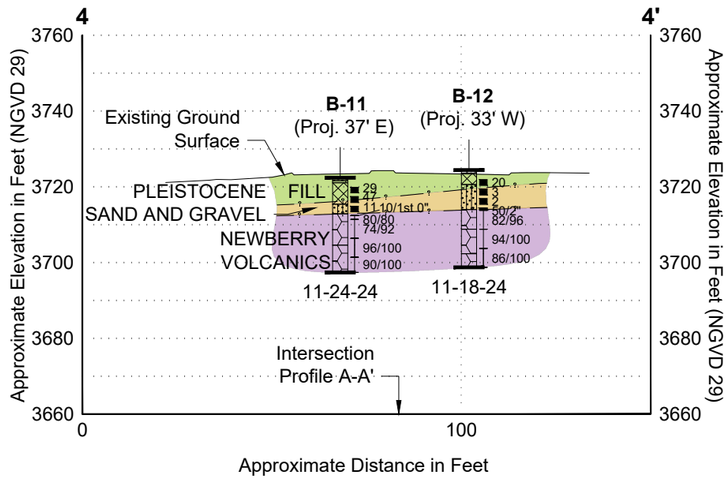

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Scale in Feet

No Vertical Exaggeration

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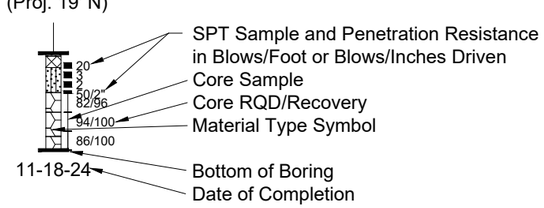

NOTES

1. Existing ground surfaces from file MC24-VB-EG-1496701.dwg, provided by DOWL on January 30, 2025. Vertical datum is NGVD29.
2. Boring locations and elevations from file MC24-VM-BA-1496701.dwg, provided by DOWL on January 30, 2025.
3. Cross sections generalized from materials observed in borings. Variations may exist between cross sections and actual conditions. See Appendix A for complete boring logs and explanations of symbols.

Reed Market Corridor Study
Bend, Oregon

INTERPRETIVE SUBSURFACE CROSS SECTIONS

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SHANNON & WILSON

FIG. 3

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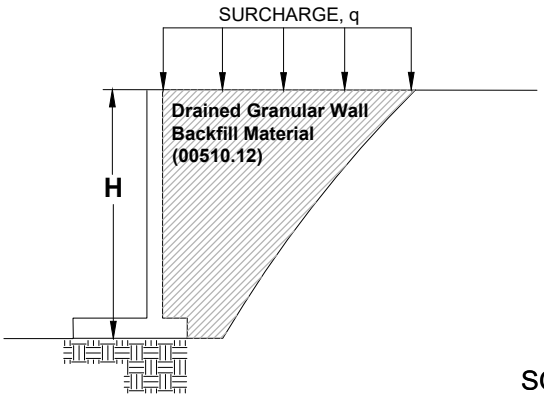
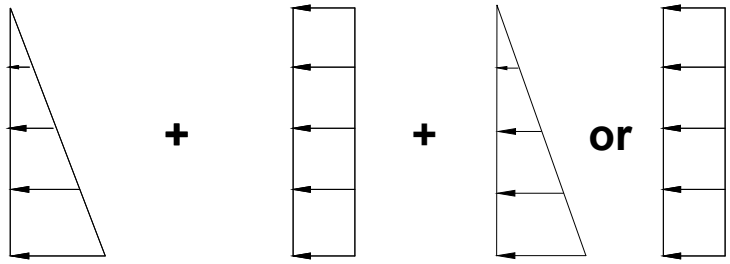
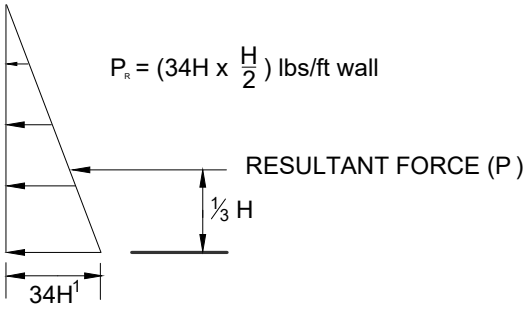


TOTAL LATERAL EQUIVALENT FLUID PRESSURES

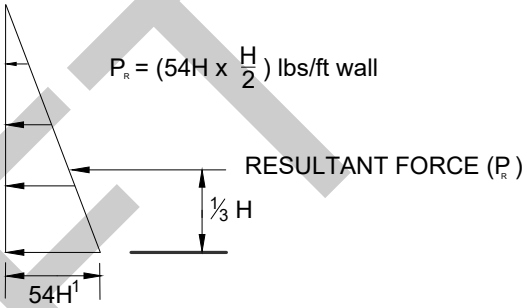


SOIL BACKFILL COMPONENT | SURCHARGE COMPONENT | SEISMIC BACKFILL COMPONENT

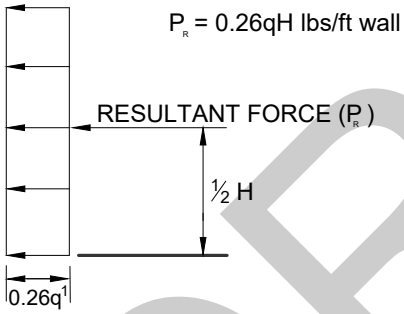
YIELDING WALL SOIL COMPONENT



NON-YIELDING WALL SOIL COMPONENT



YIELDING WALL SURCHARGE COMPONENT



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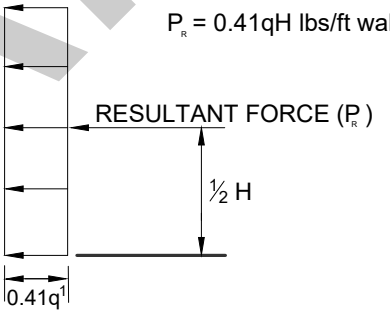

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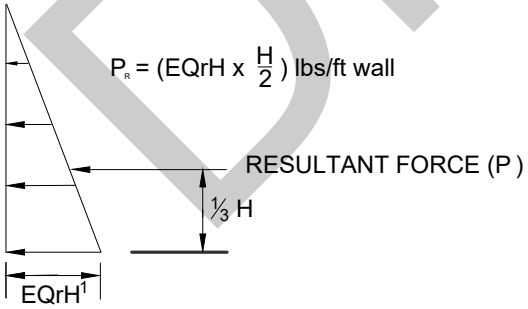

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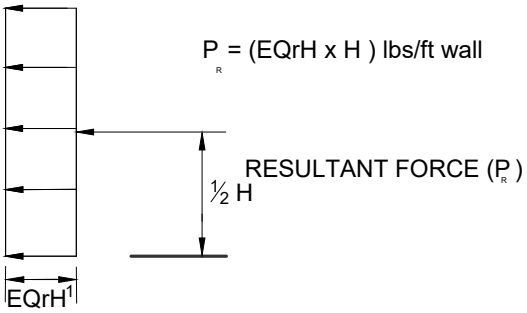

NOTES

1. Units are pounds per square foot (psf).
2. Backfill unit weight of 130 pcf.
3. Backfill friction angle is 36 deg.
4. Retained wall backfill is assumed to be drained Granular Wall Backfill material (00510.12).
5. Seismic pressures provided for peak ground accelerations associated with a 1,000-year "Risk-Targeted" earthquake level. See Table 1 for values.

TABLE 1

YIELDING EQr (pcf)	NON YIELDING EQr (pcf)
4	5

Reed Market Corridor Study
Bend, Oregon

RECOMMENDED LATERAL PRESSURES FOR ABUTMENTS AND WING WALLS

May 2025 113462

SHANNON & WILSON | **FIG. 4**

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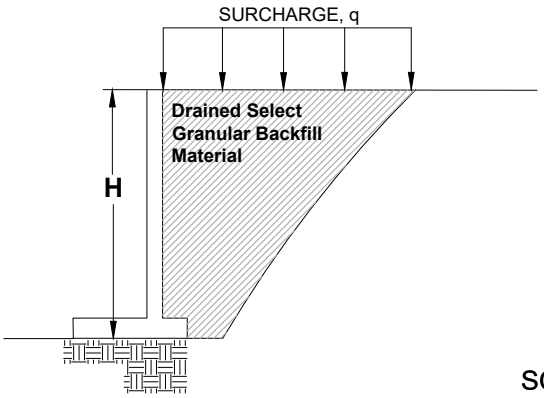
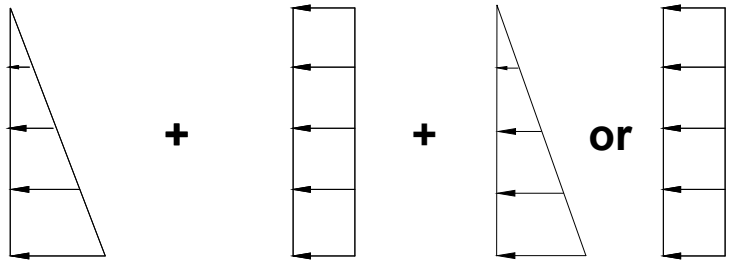
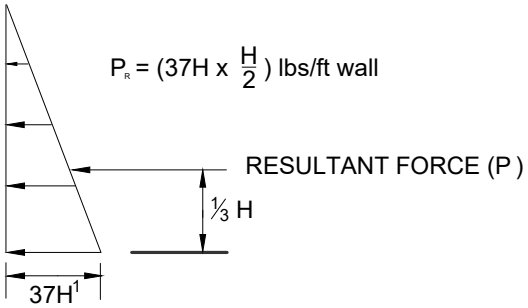


TOTAL LATERAL EQUIVALENT FLUID PRESSURES

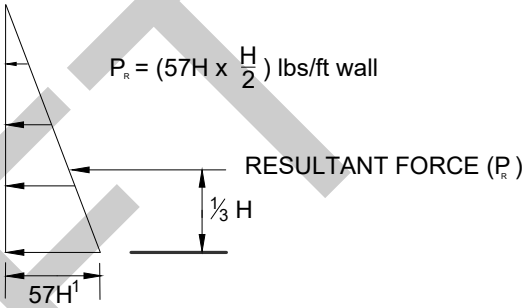


SOIL BACKFILL COMPONENT | SURCHARGE COMPONENT | SEISMIC BACKFILL COMPONENT

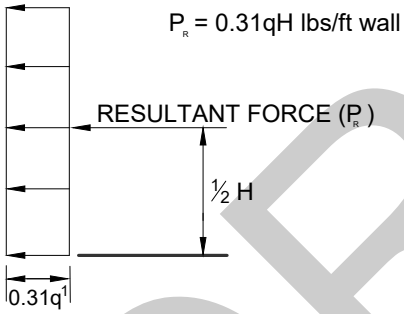
YIELDING WALL SOIL COMPONENT



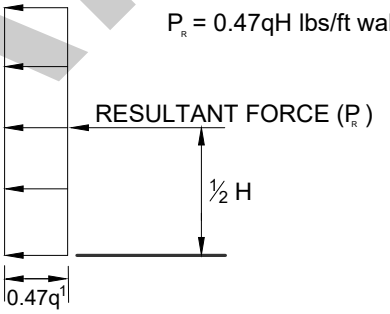
NON-YIELDING WALL SOIL COMPONENT



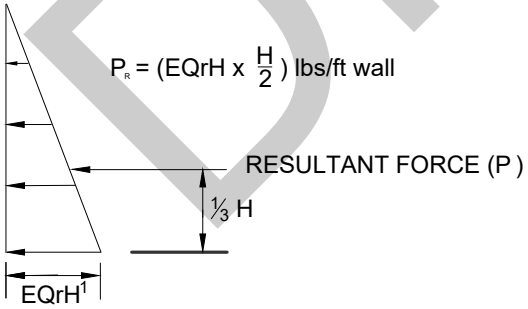
YIELDING WALL SURCHARGE COMPONENT



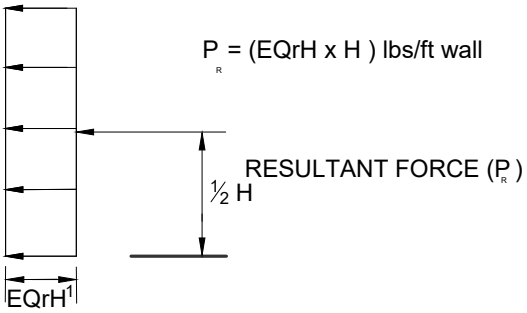
NON-YIELDING WALL SURCHARGE COMPONENT



YIELDING SEISMIC BACKFILL COMPONENT



NON-YIELDING SEISMIC BACKFILL COMPONENT



NOTES

1. Units are pounds per square foot (psf).
2. Backfill unit weight of 120 pcf.
3. Backfill friction angle is 32 deg.
4. Retained wall backfill is assumed to be drained Select Granular Backfill material.
5. Seismic pressures provided for peak ground accelerations associated with a 1,000-year "Risk-Targeted" earthquake level. See Table 1 for values.

TABLE 1

YIELDING EQr (pcf)	NON YIELDING EQr (pcf)
4	5

Reed Market Corridor Study
Bend, Oregon

RECOMMENDED LATERAL PRESSURES FOR MSE WALLS

May 2025 113462

SHANNON & WILSON | **FIG. 5**

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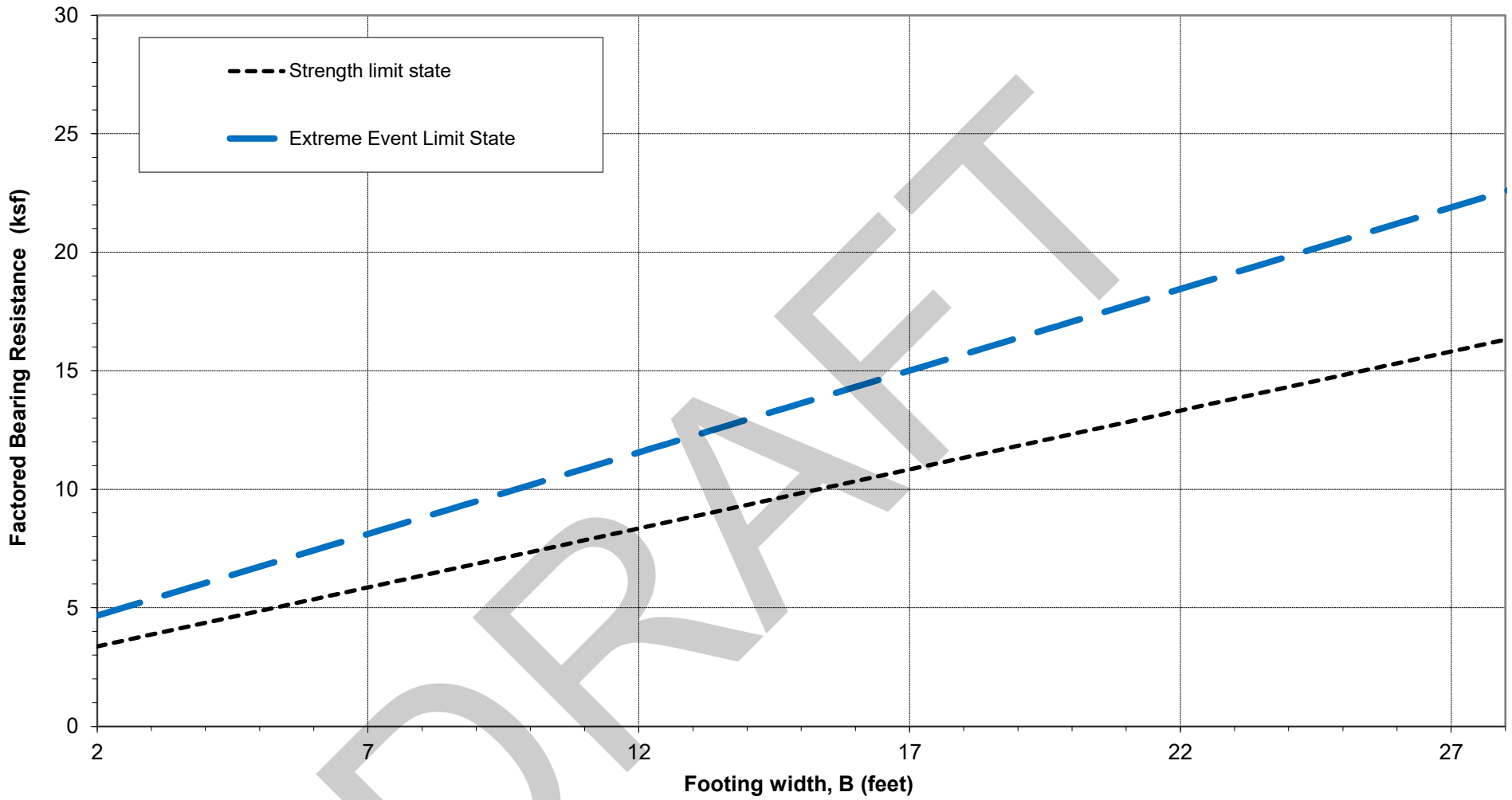

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NOTES

1. We recommend using the following resistance factors for footing LRFD design; the plotted bearing capacities use the bearing capacity resistance factors.

Limit State	Sliding Shear	Passive Press.	Bearing Capacity
Service	N/A	N/A	1.0
Strength	0.8	N/A	0.65
Extreme Event	1.0	N/A	0.9

2. The factored bearing capacities are based on a soil friction angle of 27 degrees, a soil cohesion of 0 psf, a total unit weight of 110 pcf. We assumed that the bottom of the footing was 2 feet below the ground surface.

3. **psf** - pounds per square foot; **pcf** - pounds per cubic foot; **ksf** - kips per square foot (1 kip = 1000 pounds)

FIG. 6

Reed Market Corridor Study
Bend, Oregon

FACTORED BEARING RESISTANCE VERSUS MSE REINFORCEMENT WIDTH RECTANGULAR FOOTING, L/B = 10

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FIG. 6

APPENDIX A: APPENDIX TITLE

Appendix A

Field Explorations

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A.2.1 Disturbed Sampling....1
A.2.2 Continuous HQ-Wireline Rock Coring....2
A.3 Material Descriptions....3
A.4 Drill Logs and Core Photographs....3
A.5 Borehole Installations and Abandonment....3
A.5.1 Vibrating Wire Pressure Transducers....3
A.5.2 Borehole Abandonment....4
A.6 Test Pits....4
A.7 Infiltration Testing....4
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APPENDIX A: APPENDIX TITLE

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Attachments

Ground-Penetrating Radar Survey for the Reed Market Corridor Study

2012 Geotechnical Boring Logs B-7 & B-8 and Geophysical Survey Report for American Lane Bridge

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APPENDIX A: APPENDIX TITLE

A.1 GENERAL

The geotechnical field exploration program included 18 geotechnical borings designated B-01 through B-18. A VWP with a datalogger was installed in boring B-04 to allow for ongoing groundwater measurements. In addition to the 18 geotechnical borings, three (3) test pits, designated TP-01 through TP-03, with infiltration tests, were also performed. Completed exploration locations were measured in the field and are shown on the Site and Exploration Plan and Interpretive Subsurface Profile A-A', Figure 2. Shannon & Wilson geology staff were present during the drilling of the geotechnical borings, borehole installations, and test pits to locate the exploration sites, log the material encountered, collect soil and rock samples, and perform infiltration testing.

This appendix describes the techniques used to advance and sample the borings and presents logs of the materials encountered.

A.2 DRILLING

The geotechnical borings were performed between November 17, 2024, and November 26, 2024. The borings were drilled by Haz-Tech Drilling using a truck-mounted CME-85 drilling rig. In total, 18 geotechnical borings were drilled to depths ranging from 9 to 50 feet bgs.

A.2.1 Disturbed Sampling

Disturbed samples were collected in the borings, typically at 2.5-foot depth intervals, using a standard 2-inch outside diameter (O.D.) split spoon sampler in conjunction with SPT. In a SPT, ASTM D1586, the sampler is driven 18 inches into the soil using a 140-pound hammer dropped 30 inches. The number of blows required to drive the sampler the last 12 inches is defined as the standard penetration resistance, or N-value. The SPT N-value provides a measure of the in situ relative density of cohesionless soils (silt, sand, and gravel) and the consistency of cohesive soils (silt and clay). All disturbed samples were visually identified and described in the field, sealed to retain moisture, and returned to our laboratory for additional examination and testing.

SPT N-values can be significantly affected by several factors, including the efficiency of the hammer used. Automatic hammers generally have higher energy transfer efficiencies than cathead-driven hammers. Based on available information we received from Haz-Tech Drilling, the measured efficiency of the automatic hammer on the truck-mounted CME-85 drill rig used for this project is 83.6 percent. For reference, cathead hammers are typically

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assumed to have an average energy efficiency of 60 percent. All N-values presented in this report are in blows per foot, as counted in the field. No corrections of any kind have been applied.

An SPT was considered to have met refusal where more than 50 blows were required to drive the sampler 6 inches. If refusal was encountered in the first 6-inch interval (for example, 50 for 1.5"), the count is reported as 50/1st 1.5". If refusal was encountered in the second 6-inch interval (for example, 48, 50 for 1.5"), the count is reported as 50/1.5". If refusal was encountered in the last 6-inch interval (for example, 39, 48, 50 for 1.5"), the count is reported as 98/7.5".

A.2.2 Continuous HQ-Wireline Rock Coring

Continuous HQ3-wireline rock coring was used in the boring to advance through and sample bedrock. An approximately 5-foot-long core barrel was used. Rock core samples were measured, visually described, boxed, and photographed in the field, then transported to the Shannon & Wilson laboratory for review and storage.

The rock core recovery (presented on the Drill Logs) was calculated by dividing the length of the core recovered in the barrel by the length of the total drilled run. This ratio is expressed as a percent.

The RQD, also presented on the Drill Logs, is a modified core recovery percentage including only the total length of the specimens of intact rock more than 4 inches in length, divided by the total length of the core run. To be included in the RQD, the core specimens must also meet the soundness requirement of generally having a rock strength of R2 or greater or having weathering described as fresh, slightly weathered, or moderately weathered. Highly weathered, completely weathered, and residual soil portions of rock are generally not factored into the RQD. Generally, the smaller core pieces are considered to be the result of close jointing, fracturing, or weathering in the rock mass and are excluded from the determination. Difficulties such as distinguishing natural fractures in the rock core from mechanical breaks due to drilling operations restrict the use of the RQD in evaluating in situ rock properties. However, it does provide a subjective estimate of rock mass quality and a comparison of rock quality in the borings. Photographs of the rock core boxes containing the rock core samples from borings in which HQ3-wireline rock coring occurred are presented in Figures A22 through A38.

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A.3 MATERIAL DESCRIPTIONS

In the field, soil samples were described and identified visually in accordance with the ODOT Geotechnical Design Manual (2024). The ASTM D2488 Visual-Manual method was also used as a guide in determining the key diagnostic properties of soils. Consistency, color, relative moisture, degree of plasticity, peculiar odors, and other distinguishing characteristics of the samples were noted. Once returned to our laboratory, the samples were re-examined, various standard laboratory tests were conducted, and the field descriptions and identifications were modified where necessary. Please refer to the ODOT Geotechnical Design Manual (2023) for definitions of descriptive terminology used in the Drill Logs.

A.4 DRILL LOGS AND CORE PHOTOGRAPHS

Summary logs of the borings are presented in the attached Drill Logs, Figure A1 through A21. Soil descriptions and interfaces on the logs are interpretive, and actual changes may be gradual. The left-hand portion of the drill logs gives individual sample intervals, percent recovery, SPT data, and natural moisture content measurements. Material descriptions and geotechnical unit designations are shown in the center of the Drill Logs, and the right-hand portion provides a graphic log, miscellaneous comments, and a graphic depicting hole backfill details. Rock Core Photographs are presented in Figures A22 through A38.

A.5 BOREHOLE INSTALLATIONS AND ABANDONMENT

One VWP was installed to allow for ongoing measurements of groundwater levels. Installation details are discussed below and pointed out on the Drill Log.

A.5.1 Vibrating Wire Pressure Transducers

A VWP was installed in boring B-04 to a depth of approximately 30 feet bgs to measure groundwater levels. A VWP measures pressure using a pressure-sensitive diaphragm with a vibrating wire element attached to it. A cable runs from the transducer to the ground surface, where a readout device can be attached. The wire element vibrates when current is applied through the cable using the electronic readout device. Pressure acting on the outside face of the diaphragm causes it to deflect, which changes the tension of the wire element and the frequency of its vibration. The readout device measures the frequency of the induced vibration, which can be converted into the pressure or height of groundwater above the transducer.

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The VWP was installed in the open borehole and taped to the outside of a 1-inch diameter PVC pipe to control the depth of installation. Prior to insertion, initial readings were taken with the transducers in a shallow bucket of water to determine field zero-head readings. With the piezometer in place, the hole was backfilled with bentonite-cement grout. The cable leading up from the transducer was protected at the surface with flush-mount monuments set in concrete. Inside the monument, a datalogger was attached to the wire to allow for automated readings to be taken.

A.5.2 Borehole Abandonment

Borings that did not receive installations were backfilled with bentonite cement grout or bentonite chips in accordance with Oregon Water Resources Department (OWRD) regulations. Borings performed within paved areas were patched with asphalt concrete.

A.6 TEST PITS

Three (3) test pits, designated TP-01 through TP-03 were excavated with a Takeuchi TP250-2 mini excavator, provided and operated by Western States. The test pits were excavated to depths ranging from 4 to 8 feet bgs. A Shannon & Wilson Geologist was on site to observe the excavation, sample the material, photograph and measure the test pit, log the materials encountered, and perform infiltration tests. After completion of infiltration testing, the test pits were backfilled with the native spoils. Logs of the test pits are presented in Figures A19 through A21.

A.7 INFILTRATION TESTING

Following the excavation of the test pits, three infiltration tests were performed. The infiltration testing was performed in general accordance with the Central Oregon Stormwater Manual Test Pit Method. The test locations are shown on Figure 2, Site and Exploration Plan and Interpretive Subsurface Profile A-A', and results of the tests are presented in Figures A39 through A41.

A.8 GROUND PENETRATING RADAR (GPR) TESTING

A geophysical survey was performed by Plateau Geoscience Group along the proposed wall alignments using a cart-mounted Ground Penetrating Radar (GPR) with a Mala 100MHz single channel antenna. Preliminary GPR data is attached to this appendix.

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-01**
Project **Reed Market Corridor Study**		Purpose **Retaining Wall**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **378,080.8**	Easting: **3,298,005.4**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3731.0 ft.**
Start Date **November 25, 2024**	End Date **November 26, 2024**	Total Depth **9.00 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.75 Concrete: 9-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.75 - 1.25 Base Aggregate: 6-inches thick.			
						1.25 - 4.00 Sandy Silty gravel-sized ROCK FRAGMENTS with cobbles, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense to very dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).			
	N1	73	11-25-50		N- 1 (2.50-4.00) Sandy Silty gravel-sized ROCK FRAGMENTS, with Cobbles, GM; gray-brown (10YR 5/2), nonplastic fines, moist, very dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).				
5	N2	67	4-3-4	18	N- 2 (5.00-6.50) Gravel-sized Rock Fragmenty Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist, loose, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).	**4.00 - 7.00 Gravel-sized Rock Fragmenty Silty SAND, SM; brown (7.5YR 4/3); nonplastic fines, moist, loose, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).**			
	N3	47	15-48-8		N- 3 (7.50-9.00).	**7.00 - 8.50 Sandy gravel-sized ROCK FRAGMENTS with some silt, GP-GM; gray (7.5YR 5/1), moist, very dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).**		← Encountered PVC conduit and telephone utility cable at 7.5 feet.	
	N3A				N- 3A (7.50-8.50) Sandy gravel-sized ROCK FRAGMENTS with some silt, GP-GM; gray (7.5YR 5/1), nonplastic fines, moist, very dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).				
	N3B				N- 3B (8.50-9.00) Gravel-sized Rock Fragmenty Silty SAND, SM; red-brown (5YR 4/4), nonplastic fines, moist, very dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).				
10						**8.50 - 9.00 Gravel-sized Rock Fragmenty Silty SAND, SM; red-brown (5YR 4/4), nonplastic fines, moist, medium dense, fine gravel-sized angular**			
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12						**to subangular rock fragments, fine to coarse sand, (Fill).**			
						9.00			
						End of Hole.			
15									
20									
25									
30									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-02**
Project **Reed Market Corridor Study**		Purpose **Retaining Wall**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **378,035.6**	Easting: **3,298,120.6**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3730.6 ft.**
Start Date **November 17, 2024**	End Date **November 18, 2024**	Total Depth **25.00 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.75 Concrete: 9-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.75 - 1.25 Base Aggregate: 6-inches thick.			
						1.25 - 4.50 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, disturbed texture, (Fill).			
	N1	87	27-35-15		N- 1 (2.50-4.00) Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).				
5	N2	33	50/1st 5.5"		N- 2 (5.00-5.50). N- 2A (5.00-5.30) DECOMPOSED BASALT, remolds to Gravel-sized Rock Fragmenty Silty SAND, SM; brown, nonplastic fines, moist to wet, very dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation, relict bedrock texture, (Decomposed Newberry Volcanics). N- 2B (5.30-5.50) BASALT; gray (N6), slightly weathered, (R3), joints indiscernible in SPT sample, some vesicles, (Newberry Volcanics).	**4.50 - 5.30 DECOMPOSED BASALT, remolds to Gravel-sized Rock Fragmenty Silty SAND, SM; brown, nonplastic fines, moist to wet, very dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation, relict bedrock texture, (Decomposed Newberry Volcanics).**		← Perched groundwater observed at 5.3 feet.	
	N2A								
	N2B								
	N3	20	15-50/3"		N- 3 (7.50-8.30) BASALT; gray (N6), slightly weathered, (R3), joints indiscernible in SPT sample, some vesicles, iron oxidation and staining, (Newberry Volcanics).				
						5.30 - 9.50 BASALT; gray (N6), slightly weathered, (R3), joints indiscernible in SPT sample, some vesicles, iron oxidation and staining, (Newberry Volcanics).			
10	C1	86	(R3-R4) RQD = 60		C- 1 (9.50-11.00) BASALT; gray (N6), slightly weathered, (R3-R4), moderately spaced, rough, planar, moderate angle joints with iron oxidation and staining and mineral infilling, some vesicles to highly vesicular, healed joints, (Newberry Volcanics).				
	C2	100			C- 2 (11.00-16.00).				
	C2A		RQD = 96 (R3-R4)		C- 2A (11.00-14.00) BASALT; gray (N6), slightly weathered, (R3-R4), closely spaced, rough, undulating, low to high angle joints with iron oxidation and staining, some vesicles to highly vesicular, healed joints,	**9.50 - 14.00 BASALT; gray (N6), slightly weathered,**			
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level / Date	Backfill / Instrumentation
12					(Newberry Volcanics).	**(R3-R4), close to moderately spaced, rough, undulating, low to high angle joints with iron oxidation and staining, some vesicles to highly vesicular, healed joints, (Newberry Volcanics).**			
	C2B		(R4)		C- 2B (14.00-16.00) BASALT; gray (N6), fresh to slightly weathered, (R4), closely spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).	**14.00 - 25.00 BASALT; gray (N6), fresh to slightly weathered, (R4-R5), close to moderately spaced, rough, planar and undulating, low angle joints with iron oxidation and staining, some vesicles with some highly vesicular zones, (Newberry Volcanics).**		UCS C2 at 15.1 feet: 8,550 psi	
15	C3	100	(R4-R5) RQD = 98		C- 3 (16.00-21.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), close to moderately spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicules with some highly vesicular zones, (Newberry Volcanics).				
20	C4	100	(R4-R5) RQD = 100		C- 4 (21.00-25.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), close to moderately closely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicules, (Newberry Volcanics).				
25						**25.00 End of Hole.**			
30									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**B-03**
Project **Reed Market Corridor Study**	Purpose **Retaining Wall (Tall)**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **378,057.7**	Easting: **3,298,203.0**	Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3728.5 ft.**
Start Date **November 24, 2024**	End Date **November 24, 2024** Total Depth **21.00 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.75 Concrete: 9-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.75 - 1.30 Base Aggregate: 7-inches thick.			
						1.30 - 2.70 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, slight iron oxidation, (Fill).		
	N1	93	13-15-18	26	N- 1 (2.50-4.00).				
	N1A				N- 1A (2.50-2.70) Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, slight iron oxidation, (Fill).				
	N1B				N- 1B (2.70-4.00) Gravelly Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist, dense, fine angular to subangular gravel, fine to coarse sand, slight iron oxidation, (Pleistocene Sand and Gravel).				
5						**2.70 - 5.50 Gravelly Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist to wet; medium dense to dense, fine angular to subangular gravel, fine to coarse sand, slight iron oxidation, (Pleistocene Sand and Gravel).**			
	N2A	47	6-50/3"		N- 2A (5.00-5.50) Gravelly Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist to wet, fine angular to subangular gravel, fine to coarse sand, slight iron oxidation, (Pleistocene Sand and Gravel).				
	N2B								
	C1	100	(R3-R4) RQD = 0		N- 2B (5.50-5.80) BASALT; gray (N6), slightly weathered, (R3-R4), joints indiscernible in SPT sample., (Newberry Volcanics).				
	C2	100	(R3-R4) RQD = 100		C- 1 (5.80-6.00) BASALT; gray (N6), slightly weathered, (R3-R4), some vesicles to highly vesicular., (Newberry Volcanics).				
	C2A				C- 2 (6.00-11.00).				
	C2B		(R4)		C- 2A (6.00-7.30) BASALT; gray (N6), fresh to slightly weathered, (R3-R4), closely spaced, rough, undulating low angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).	**5.50 - 7.30 BASALT; gray (N6), fresh to slightly weathered, (R3-R4), closely spaced, rough, undulating low angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).**		UCS C2 at 9.0 feet: 10,566 psi	
10					C- 2B (7.30-11.00) BASALT; gray (N6), fresh to slightly weathered, (R4), close to moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).	**7.30 - 21.00 BASALT; gray (N6), fresh to slightly weathered, (R4-R5), close to moderately spaced, rough, undulating, low angle**			
	C3	100	(R4-R5) RQD = 100		C- 3 (11.00-16.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), close to moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).				
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12						**joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**			
15									
	C4	100	(R4-R5) RQD = 100		C- 4 (16.00-21.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), close to moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).				
20									
						21.00 **End of Hole.**			
25									
30									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-04**
Project **Reed Market Corridor Study**		Purpose **Retaining Wall (Tall)**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **378,004.3**	Easting: **3,298,307.8**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3727.2 ft.**
Start Date **November 18, 2024**	End Date **November 19, 2024**	Total Depth **40.00 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

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J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
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DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.30 Concrete: 4-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
	N1	47	11-12-5		N- 1 (2.50-4.00) Gravel-sized Rock Fragmenty Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, trace organics and wood fragments, slight iron oxidation, (Fill).	**0.30 - 4.50 Gravel-sized Rock Fragmenty Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, trace organics, rootlets, and wood fragments, slight iron oxidation, (Fill).**			
5	N2	7	5-3-1		N- 2 (5.00-6.50) Gravel-sized Rock Fragmenty Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist, very loose to loose, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, trace organics and rootlets, slight iron oxidation, (Fill).	**4.50 - 10.00 Sandy gravel-sized ROCK FRAGMENTS with some silt, with cobble-sized rock fragments, GM; gray-brown (10YR 5/2), nonplastic fines, moist, very loose to medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Fill).**		Cuttings not returning to surface below 5 feet; potential void space downhole.	
	N3	20	12-7-8		N- 3 (7.50-9.00) Sandy gravel-sized ROCK FRAGMENTS with some silt, with cobbles, GM; gray-brown (10YR 5/2), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Fill).				
10	N4	47	1-1-4	10	N- 4 (10.00-11.50) Silty SAND with trace Gravel, SM; brown (7.5YR 4/3), nonplastic fines, moist, loose, fine angular to subangular gravel, fine to coarse sand, trace organics, slight iron oxidation, (Pleistocene Sand and Gravel).	**10.00 - 11.50 Silty SAND with trace gravel, SM; brown (7.5YR 4/3), nonplastic fines, moist, loose, fine angular to subangular gravel, fine to coarse**		Loss of DF circulation upon rock coring.	
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12						**sand, trace organics, slight iron oxidation, (Pleistocene Sand and Gravel).**			
	N5	0	10/1st 0"		N- 5 (12.50-12.50) NO RECOVERY.	**11.50 - 17.80 BASALT; gray (N6), fresh to slightly weathered, (R4), close to moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**			
	C1	100	(R4) RQD = 100		C- 1 (14.00-16.00) BASALT; gray (N6), fresh to slightly weathered, (R4), moderately spaced low angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).				
15								UCS C1 at 15.2 feet: 9,909 psi	
	C2	98			C- 2 (16.00-21.00).				
	C2A		RQD = 78 (R4)		C- 2A (16.00-17.80) BASALT; gray (N6), fresh to slightly weathered, (R4), close to moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).				
	C2B		(R3-R4)		C- 2B (17.80-21.00) BASALT; gray (N6), slighty weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to moderate angle joints with iron oxidation and staining, and some silt infilling, highly vesicular., (Newberry Volcanics).	**17.80 - 31.00 BASALT; gray (N6), slighty weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to moderate angle joints with iron oxidation and staining, some silt infilling, and occasional mineral coating on joint surfaces, highly vesicular with vugs up to 1-inch in diameter, (Newberry Volcanics).**			
20								UCS C2 at 20.1 feet: 5,061 psi	
	C3	100	(R3-R4) RQD = 94		C- 3 (21.00-26.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxide staining and occasional mineral coating on joint surfaces; highly vesicular with vugs up to 1-inch in diameter., (Newberry Volcanics).				
25									
	C4	100	(R3-R4) RQD = 100		C- 4 (26.00-31.00) BASALT; gray (N6), slightly weathered, (R3-R4), some vesicles to highly vesicular., (Newberry Volcanics).				
30								RST VW2100-0.35-L20	

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
30								vibrating wire piezometer (SN: VW188258) installed at 29.7 feet
	C5	100	(R4-R5) RQD = 100		C- 5 (31.00-36.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), moderately spaced, rough, planar, low to moderate angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).	**31.00 - 40.00 BASALT; gray (N6), fresh to slightly weathered, (R4-R5), moderate to widely spaced, rough, planar, low to moderate angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**		
35								
	C6	100	(R4-R5) RQD = 100		C- 6 (36.00-40.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), widely spaced, smooth, planar, high angle joints with iron oxide staining, some vesicles with a highly vesicular zone from 36-36.2 feet., (Newberry Volcanics).			
40						**40.00 End of Hole.**		
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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**B-05**
Project **Reed Market Corridor Study**	Purpose **Bridge Over-Crossing Railroad**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **378,069.4**	Easting: **3,298,435.7**	Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3725.0 ft.**
Start Date **November 22, 2024**	End Date **November 23, 2024** Total Depth **38.50 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 1.00 Concrete: 12-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						1.00 - 1.30 Base Aggregate: 4-inches thick.			
	N1	47	9-6-5		N- 1 (2.50-4.00) Silty SAND with some gravel-sized rock fragments, SM; gray-brown (10YR 5/2), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).	**1.30 - 4.00 Silty SAND with gravel-sized rock fragments, SM; gray-brown (10YR 5/2), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).**			
5	N2	73	2-2-3	19	N- 2 (5.00-6.50) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, loose, fine angular to subangular gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).	**4.00 - 7.00 Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, loose, fine angular to subangular gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).**		Driller indicates gravel from 4.75 to 5 feet. N2: 1% gravel, 65% sand, 34% fines. Driller indicates gravel from 6.5 to 7 feet.	
	N3	67	2-3-7	22	N- 3 (7.50-9.00) Sandy SILT with trace gravel, ML; red-brown (5YR 4/4), low plasticity, moist to wet, stiff, fine angular to subangular gravel, fine to coarse sand, iron oxidation and staining, (Pleistocene Sand and Gravel).	**7.00 - 9.00 Sandy SILT with trace gravel, ML; red-brown (5YR 4/4), low plasticity, moist to wet, stiff, fine angular to subangular gravel, fine to coarse sand, iron oxidation and staining, (Pleistocene Sand and Gravel).**		Atterberg Limits N3: LL= 25, PL=20, PI=5.	
10	N4	0	10/1st 0"		N- 4 (10.00-10.00) NO RECOVERY.	**9.00 - 13.80 BASALT; gray (N6), slightly weathered, (R3), close to moderately spaced, rough, planar, low to high angle joints with iron oxidation and**			
	C1	60	(R3) RQD = 50		C- 1 (10.01-11.00) BASALT; gray (N6), slightly weathered, (R3), highly vesicular with vugs up to 0.5-inch in diameter, iron oxidation and staining within vesicles, (Newberry Volcanics).				
	C2	100			C- 2 (11.00-16.00).				
	C2A		RQD = 96 (R3)		C- 2A (11.00-13.80) BASALT; gray (N6), slightly weathered, (R3), close to moderately spaced, rough, planar, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).				
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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12						**staining, highly vesicular, (Newberry Volcanics).**		UCS C2 at 12.2 feet: 5,040 psi	
	C2B		(R4)		C- 2B (13.80-16.00) BASALT; gray (N6), fresh to slightly weathered, (R4), moderately spaced, rough, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).	**13.80 - 18.80 BASALT; gray (N6), fresh to slightly weathered, (R4), moderately spaced, rough and planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**		Lost DF circulation from 14.5 to 15 feet.	
15									
	C3	92			C- 3 (16.00-21.00).				
	C3A		RQD = 66 (R4)		C- 3A (16.00-18.80) BASALT; gray (N6), fresh to slightly weathered, (R4), moderately spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicules., (Newberry Volcanics).			UCS C3 at 16.6 feet: 10,575 psi	
	C3B		(R3)		C- 3B (18.80-21.00) BASALT; dark gray (N3), slightly weathered, (R3), very close to closely spaced, rough, low to high angle joints with iron oxidation and staining, highly vesicular., (Newberry Volcanics).	**18.80 - 26.00 BASALT; dark gray (N3), slightly weathered, (R3), very close to moderately spaced, rough, planar and undulating, low to high angle joints with iron ixidation and staining and some mineral coating on joint surfaces, highly vesicular, (Newberry Volcanics).**		Lost DF circulation below 19 feet.	
20									
	C4	100	(R3) RQD = 94		C- 4 (21.00-26.00) BASALT; dark gray (N3), slightly weathered, (R3), close to moderately spaced, rough, planar and undulating, low to high angle joints with iron ixidation and staining and some mineral coating on joint surfaces, highly vesicular., (Newberry Volcanics).				
25									
	C5	94	(R3-R4) RQD = 90		C- 5 (26.00-31.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar low to moderate angle joints with some iron oxidation and staining, some vesicules with vugs up to 1-inch diameter., (Newberry Volcanics).	**26.00 - 31.00 BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar low to moderate angle joints with some iron oxidation and staining, some vesicles with vugs up to 1-inch diameter, (Newberry Volcanics).**		UCS C5 at 26.1 feet: 4,817 psi	
30									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
30									
	C6	100	(R4-R5) RQD = 100		C- 6 (31.00-36.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), moderate to widely spaced, rough, planar, low angle joints, some vesicles with vugs up to 1-inch diameter., (Newberry Volcanics).	**31.00 - 38.50 BASALT; gray (N6), fresh to slightly weathered, (R4-R5), moderate to widely spaced, rough, planar, low angle joints, some vesicles with vugs up to 1-inch diameter, (Newberry Volcanics).**			
35	C7	100	(R4-R5) RQD = 100		C- 7 (36.00-38.50) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), moderately spaced, rough, planar, low angle joints with iron oxide staining, some vesicles., (Newberry Volcanics).			Drill rig pump malfunctioned, causing the drill bit to heat up and melt onto the bottom of hole. After replacing 2 drill bits, it was determined that the metal obstruction downhole was impassable.	
						38.50 End of Hole.			
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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**B-06**
Project **Reed Market Corridor Study**	Purpose **Bridge Over-Crossing Railroad**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **378,034.6**	Easting: **3,298,412.6**	Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3725.7 ft.**
Start Date **November 19, 2024**	End Date **November 20, 2024** Total Depth **51.00 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

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S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
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CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.80 Concrete: 9.5-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.80 - 1.20 Base Aggregate: 5-inches thick.			
	N1	47	36-11-7		N- 1 (2.50-4.00) Sandy Silty gravel-sized ROCK FRAGMENTS, with cobble-sized rock fragments, GM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular, fine to coarse sand, iron oxidation and staining, (Fill).	**1.20 - 4.00 Sandy Silty gravel-sized ROCK FRAGMENTS, with cobble-sized rock fragments, GM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Fill).**			
5	N2	33	3-3-3		N- 2 (5.00-6.50) Gravelly Silty SAND, SM; red-brown (5YR 4/4), nonplastic fines, moist, loose, fine to coarse angular to subrounded gravel, fine to coarse sand, iron oxidation and staining, (Pleistocene Sand and Gravel).	**4.00 - 7.00 Gravelly Silty SAND, SM; red-brown (5YR 4/4), nonplastic fines, moist, loose, fine to coarse angular to subrounded gravel, fine to coarse sand, iron oxidation and staining, (Pleistocene Sand and Gravel).**			
	N3	73	1-2-4	22	N- 3 (7.50-9.00) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist to wet, loose, fine angular to rounded gravel, fine to coarse sand, trace organics, iron oxidation and staining, (Pleistocene Sand and Gravel).	**7.00 - 10.20 Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist to wet, loose, fine angular to rounded gravel, fine to coarse sand, trace organics, iron oxidation and staining, (Pleistocene Sand and Gravel).**		N3: 2% gravel, 52% sand, 46% fines. Perched groundwater encountered from 8.5 to 10.2 feet.	
10	N4	20	50/1st 3"		N- 4 (10.00-10.30) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist to wet, fine angular to subangular gravel, fine to coarse sand, iron oxidation and staining, (Pleistocene Sand and Gravel).				
	C1	100	(R3) RQD = 57		C- 1 (10.30-11.00) BASALT; gray (N6), slightly weathered, (R3), closely spaced, smooth to rough, planar, moderate to high angle joints (75°) with iron oxide staining, highly vesicular., (Newberry Volcanics).				
	C2	100			C- 2 (11.00-16.00).				
	C2A		RQD = 100 (R3-R4)		C- 2A (11.00-15.00) BASALT; gray (N6), slightly	**10.20 - 15.00 BASALT; gray (N6), slightly weathered,**			
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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12					weathered, (R3-R4), close to moderately spaced, smooth to rough, planar, low to high angle joints with iron oxide staining and occasional silt and rock fragment infill, some vesicles to highly vesicular, (Newberry Volcanics).	**(R3-R4), close to moderately spaced, smooth to rough, planar, low to high angle joints with iron oxide staining and occasional silt and rock fragment infill, some vesicles to highly vesicular, (Newberry Volcanics).**		UCS C2 at 14.1 feet: 5,960 psi	
15	C2B		(R4)		C- 2B (15.00-16.00) BASALT; gray (N6), slightly weathered, (R4), moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).	**15.00 - 17.80 BASALT; gray (N6), slightly weathered, (R4), moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).**			
	C3	98			C- 3 (16.00-21.00).				
	C3A		RQD = 56 (R4)		C- 3A (16.00-17.80) BASALT; gray (N6), slightly weathered, (R4), moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles to highly vesicular., (Newberry Volcanics).			Lost DF circulation at 17 feet.	
	C3B		(R3)		C- 3B (17.80-21.00) BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough, undulating, low to high angle joints with iron oxidation and staining, highly vesicular with vugs up to 1-inch diameter., (Newberry Volcanics).	**17.80 - 26.00 BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining staining, some vesicles to highly vesicular with vugs up to 1-inch diameter, (Newberry Volcanics).**			
20								UCS C3 at 20.4 feet: 5,601 psi	
	C4	100	(R3-R4) RQD = 100		C- 4 (21.00-26.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining staining, some vesicles to highly vesicular with vugs up to 0.5-inch diameter., (Newberry Volcanics).				
25									
	C5	100	(R4) RQD = 100		C- 5 (26.00-31.00) BASALT; gray (N6), slightly weathered, (R4), close to widely spaced, smooth to rough, planar and undulating, low angle joints with slight iron oxidation and staining, some vesicles with vugs up to 0.5-inch diameter., (Newberry Volcanics).	**26.00 - 42.00 BASALT; gray (N6), fresh to slightly weathered, (R4-R5), very close to widely spaced, rough, planar, low to high angle joints with slight iron oxidation and staining, some vesicles with vugs up to 0.5-inch diameter, (Newberry Volcanics).**			
30									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
30									
	C6	100	(R4-R5) RQD = 96		C- 6 (31.00-36.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), very close to widely spaced, rough, planar, low angle joints with slight iron oxidation and staining, some vesicles with vugs up to 0.5-inch diameter., (Newberry Volcanics).				
35									
	C7	94	(R4-R5) RQD = 94		C- 7 (36.00-41.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), very close to widely spaced, rough, planar, low to high angle joints with slight iron oxidation and staining, some vesicles, (Newberry Volcanics).				
40									
	C8	100			C- 8 (41.00-46.00).				
	C8A		RQD = 66 (R4-R5)		C- 8A (41.00-42.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), very close to closely spaced, smooth to rough, planar and undulating, low to moderate angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
	C8B		(R3-R4)		C- 8B (42.00-46.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to closely spaced, smooth to rough, undulating and planar, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**42.00 - 51.00 BASALT; gray (N6), fresh to slightly weathered, (R3-R4), very close to widely spaced, smooth to rough, undulating and planar, low to high angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).**			
45									
	C9	100	(R4) RQD = 100		C- 9 (46.00-51.00) BASALT; gray (N6), fresh to slightly weathered, (R4), widely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).				
48									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
48									
50									
						51.00 **End of Hole.**			
55									
60									
65									
66									

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SHANNON & WILSON

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

Hole No. **B-07**

Project **Reed Market Corridor Study**	Purpose **Bridge Over-Crossing Railroad**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **378,070.7** Easting: **3,298,585.9**		Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3724.9 ft.**
Start Date **November 23, 2024** End Date **November 24, 2024**	Total Depth **50.00 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.75 Concrete: 9-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.75 - 1.25 Base Aggregate: 6-inches thick.			
						1.25 - 4.00 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Fill).			
	N1	67	13-11-15		N- 1 (2.50-4.00) Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Fill).				
5	N2	33	4-3-4	3	N- 2 (5.00-6.50).	**4.00 - 6.00 Sandy gravel-sized ROCK FRAGMENTS with some Silt, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, loose, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).**		← 3- to 4-inch white PVC conduit encountered at 5.5 feet.	
	N2A				N- 2A (5.00-6.00) Sandy gravel-sized ROCK FRAGMENTS with some Silt, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, loose, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).				
	N2B				N- 2B (6.00-6.50) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, loose, fine angular to subangular gravel, fine to coarse sand, (Pleistocene Sand and Gravel).				
	N3	7	50/1st 1"		N- 3 (7.50-7.60) BASALT; gray (N6), slightly weathered, (R3), joints indiscernible in SPT sample, highly vesicular, (Newberry Volcanics).	**6.00 - 7.10 Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, loose, fine angular to subangular gravel, fine to coarse sand, (Pleistocene Sand and Gravel).**			
10	N4	7	50/1st 1" (R3) RQD = 0		N- 4 (10.00-10.10) BASALT; gray (N6), slightly weathered, (R3), joints indiscernible in SPT sample, highly vesicular, (Newberry Volcanics).	**7.10 - 16.80 BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough, planar and undulating, low to**			
	C1	56			C- 1 (10.10-11.00) BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough, planar, low to high angle joints with iron oxidation and staining, and silt infilling, highly vesicular, (Newberry Volcanics).				
	C2	100	(R3) RQD = 75		C- 2 (11.00-16.00) BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough,				
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12					planar and undulating, low to high angle joints with iron oxide staining and silt infill (1-2mm), some vesicles with vugs up to 1-inch diameter., (Newberry Volcanics).	**high angle joints with iron oxide staining and silt infill (1-2mm), some vesicles with vugs up to 1-inch diameter, (Newberry Volcanics).**		UCS C2 at 12.6 feet: 5,317 psi Lost DF circulation below 14 feet.	
15	C3	100			C- 3 (16.00-21.00).				
	C3A		RQD = 84 (R3)		C- 3A (16.00-16.80) BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough, planar and undulating, low to high angle joints with iron oxide staining and silt infill, some vesicles, (Newberry Volcanics).				
	C3B		(R4)		C- 3B (16.80-21.00) BASALT; gray (N6), fresh to slightly weathered, (R4), close to moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).	**16.80 - 24.50 BASALT; gray (N6), fresh to slightly weathered, (R4), close to widely spaced, rough to smooth, planar, low to high angle joints with iron oxide staining and occasional silt infill (1mm), some vesicles, (Newberry Volcanics).**			
20	C4	96			C- 4 (21.00-26.00).			UCS C4 at 21.0 feet: 12,320 psi	
	C4A		RQD = 88 (R4)		C- 4A (21.00-24.50) BASALT; gray (N6), slightly weathered, (R4), close to widely spaced, rough to smooth, planar, low to high angle joints with iron oxide staining and occasional silt infill (1mm), some vesicles., (Newberry Volcanics).				
	C4B		(R3)		C- 4B (24.50-26.00) BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough, undulating, low to high angle joints with iron oxidation and staining, (Newberry Volcanics).	**24.50 - 31.00 BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to moderate angle joints with iron oxidation and staining and occasional silt infill (1mm), some vesicles to highly vesicular, (Newberry Volcanics).**			
25	C5	96	(R3-R4) RQD = 72		C- 5 (26.00-31.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to moderate angle joints with iron oxidation and staining and occasional silt infill (1mm), some vesicles to highly vesicular, (Newberry Volcanics).				
30									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
30									
	C6	100	(R4) RQD = 100		C- 6 (31.00-36.00) BASALT; gray (N6), slightly weathered, (R4), close to widely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).	**31.00 - 41.00 BASALT; gray (N6), fresh to slightly weathered, (R4-R5), close to widely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**			
35	C7	100	(R4-R5) RQD = 100		C- 7 (36.00-41.00) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), some vesicles, jointing not observed within core run, (Newberry Volcanics).			UCS C6 at 35.3 feet: 10,759 psi	
40	C8	100	(R3-R4) RQD = 94		C- 8 (41.00-46.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**41.00 - 50.00 BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasional silt infill (1mm), some vesicles, (Newberry Volcanics).**			
45	C9	100	(R3-R4) RQD = 68		C- 9 (46.00-50.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasional silt infill (1mm), some vesicles, (Newberry Volcanics).				
48									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
48									
50						**50.00** **End of Hole.**			
55									
60									
65									
66									

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SHANNON & WILSON

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**B-08**
Project **Reed Market Corridor Study**	Purpose **Bridge Over-Crossing Railroad**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **378,030.2**	Easting: **3,298,602.8**	Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3724.8 ft.**
Start Date **November 20, 2024**	End Date **November 21, 2024** / Total Depth **50.00 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.80 Concrete: 10-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.80 - 1.30 Base Aggregate: 6-inches thick.			
	N1	80	24-19-13		N- 1 (2.50-4.00) Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).	**1.30 - 7.00 Sandy Silty gravel-sized ROCK FRAGMENTS, with cobble-sized rock fragments, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Fill).**			
5	N2	53	8-27-17		N- 2 (5.00-6.50) Sandy Silty gravel-sized ROCK FRAGMENTS, with cobble-sized rock fragments, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Fill).				
	N3	40	1-2-50/2"	14	N- 3 (7.50-8.70) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine angular to subangular gravel, fine to coarse sand, iron oxdation, (Pleistocene Sand and Gravel).	**7.00 - 8.50 Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose to loose, fine angular to subangular gravel, fine to coarse sand, iron oxdation, (Pleistocene Sand and Gravel).**		N3: 25% fines.	
10	N4	27	15-50/4"		N- 4 (10.00-10.80) BASALT; gray (N6), slightly weathered, (R3), joints indiscernible in SPT sample, (Newberry Volcanics).	**8.50 - 16.00 BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to high angle joints)**			
	C1	100	(R3) RQD = 0 (R3-R4) RQD = 82		C- 1 (10.80-11.00) BASALT; gray (N6), slightly weathered, (R3), very closely spaced, rough, low to high angle joints with iron oxidation and staining, highly vesicular., (Newberry Volcanics).				
	C2	100			C- 2 (11.00-16.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough,				
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12					planar and undulating, low to high angle joints) with iron oxidation and staining, some vesicles to highly vesicular with vugs up to 0.5-inch diameter, (Newberry Volcanics).	**with iron oxidation and staining, some vesicles to highly vesicular with vugs up to 0.5-inch diameter, (Newberry Volcanics).**		UCS C2 at 13.0 feet: 7,314 psi	
15									
	C3	100	(R4) RQD = 100		C- 3 (16.00-21.00) BASALT; gray (N6), fresh to slightly weathered, (R4), close to widely spaced, rough, planar and undulating, low to high angle joints with iron oxide staining, some vesicles to highly vesicular, (Newberry Volcanics).	**16.00 - 26.00 BASALT; gray (N6), fresh to slightly weathered, (R4), close to widely spaced, rough, planar and undulating, low to high angle joints with iron oxide staining, some vesicles to highly vesicular, (Newberry Volcanics).**			
20								UCS C3 at 19.6 feet: 9,089 psi	
	C4	96	(R4) RQD = 92		C- 4 (21.00-26.00) BASALT; gray (N6), fresh to slightly weathered, (R4), close to widely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).				
25								Lost DF circulation below 25 feet.	
	C5	96	(R3-R4) RQD = 74		C- 5 (26.00-31.00) BASALT; brownish gray (5YR 4/1), slightly weathered, (R3-R4), close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**26.00 - 31.00 BASALT; brownish gray (5YR 4/1), slightly weathered, (R3-R4), close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).**			
30									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
30								UCS C5 at 30.2 feet: 5,717 psi	
	C6	100	(R3-R4) RQD = 92		C- 6 (31.00-36.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderate spaced, rough, planar and undulating, low to moderate angle joints with occasional iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).	**31.00 - 39.80 BASALT; gray (N6), fresh to slightly weathered, (R3-R4), close to moderate spaced, rough, planar and undulating, low to moderate angle joints with occasional iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).**			
35	C7	94			C- 7 (36.00-41.00).				
	C7A		RQD = 92 (R3-R4)		C- 7A (36.00-39.80) BASALT; gray (N6), fresh to slightly weathered, (R3-R4), close to moderate spaced, rough, planar and undulating, low to moderate angle joints with occasional iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).				
40	C7B		(R3)		C- 7B (39.80-41.00) BASALT; gray (N6), slightly weathered, (R3), moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**39.80 - 50.00 BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar low to high angle joints with iron oxide staining, highly vesicular, (Newberry Volcanics).**			
	C8	92	(R3-R4) RQD = 78		C- 8 (41.00-46.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar low to high angle joints with iron oxide staining, highly vesicular, (Newberry Volcanics).				
45	C9	90	(R3-R4) RQD = 80		C- 9 (46.00-50.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar low to high angle joints with iron oxide staining, highly vesicular, (Newberry Volcanics).				
48									

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Depth (ft)	Test Type, No.	Percent Recovery	Driving Resistance / Discontinuity Data Or RQD% (Soil / Rock)	Percent Natural Moisture	Material Description SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
48									
50						**50.00** **End of Hole.**			
55									
60									
65									
66									

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SHANNON & WILSON

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-09**
Project **Reed Market Corridor Study**		Purpose **Retaining Wall (Tall)**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **378,125.8**	Easting: **3,298,743.5**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3719.7 ft.**
Start Date **November 21, 2024**	End Date **November 21, 2024**	Total Depth **29.50 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.25 Topsoil: 3-inches thick, (Fill).**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
	N1	27	2-4-10	16	N- 1 (2.50-4.00) Sandy Silty gravel-sizedROCK FRAGMENTS, GM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).	**0.25 - 2.00 Silty SAND with trace gravel-sized rock fragments, SM; brown (7.5YR 4/3), nonplastic fines, moist, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).**			
5	N2	87	1-1-2	20	N- 2 (5.00-6.50) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).	**2.00 - 4.00 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).**		N2: 4% gravel, 63% sand, 33% fines.	
	N3	47	2-1-1	20	N- 3 (7.50-8.70) Silty SAND, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose, fine to medium sand, (Pleistocene Sand and Gravel).	**4.00 - 9.00 Silty SAND to Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).**			
10	N4	73	15-15-11	26	N- 4 (10.00-11.50) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, medium dense, fine angular to subangular gravel, fine to coarse sand, (Pleistocene Sand and Gravel).	**9.00 - 11.80 Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, medium dense, fine angular to subangular gravel, fine to coarse sand, (Pleistocene Sand**			
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12						**and Gravel).**			
	N5	13	50/1st 2"		N- 5 (12.50-12.70) BASALT; gray (N6), slightly weathered, (R3-R4), joints indiscernible in SPT sample, (Newberry Volcanics).	**11.80 - 21.00 BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar and undulating, low to moderate angle joints with iron oxidation and staining and occasional mineral coating on joint surfaces, some vesicles, (Newberry Volcanics).**			
	C1	80	(R3-R4) RQD = 80		C- 1 (14.00-16.00) BASALT; gray (N6), slightly weathered, (R3-R4), closely spaced, rough, undulating, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).				
15								Lost DF circulation at 16 feet. Sudden drop of core rod from 16 to 17 feet indicates possible void	
	C2	80	(R3-R4) RQD = 78		C- 2 (16.00-21.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar and undulating, low to moderate angle joints with iron oxidation and staining and occasional mineral coating on joint surfaces, some vesicules, (Newberry Volcanics).			UCS C2 at 17.0 feet: 8,457 psi	
								Possible void: 18.0 - 18.2 ft	
20								Possible void: 19.6 - 19.8 ft	
	C3	100	(R4) RQD = 94		C- 3 (21.00-26.00) BASALT; gray (N6), fresh to slightly weathered, (R4), very close to moderately spaced, rough, planar to undulating, low to high angle joints with iron oxidation and staining and occasional mineral coating on joint surfaces, some vesicles, (Newberry Volcanics).	**21.00 - 29.50 BASALT; gray (N6), fresh to slightly weathered, (R4-R5), very close to widely spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasional mineral coating on joint surfaces, some vesicles, (Newberry Volcanics).**			
25									
	C4	100	(R4-R5) RQD = 100		C- 4 (26.00-29.50) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), close to widely spaced, rough, undulating, low angle joints with iron oxdiation and staining, some vesicles., (Newberry Volcanics).				
30						**29.50 End of Hole.**			

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**B-10**
Project **Reed Market Corridor Study**	Purpose **Retaining Wall (Tall)**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **378,028.2**	Easting: **3,298,757.8**	Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3721.4 ft.**
Start Date **November 21, 2024**	End Date **November 21, 2024** Total Depth **40.00 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.80 Concrete: 9.5-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.80 - 1.30 Base Aggregate: 6.5-inches thick.			
						1.30 - 3.00 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).			
	N1 N1A N1B	87	21-20-12		N- 1 (2.50-4.00). N- 1A (2.50-3.00) Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown (10YR 5/2), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill). N- 1B (3.00-4.00) Gravel-sized Rock Fragmenty Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist, dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxide staining, (Fill).				
						3.00 - 4.50 Gravel-sized Rock Fragmenty Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist, dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxide staining, (Fill).			
5	N2	40	15-36-7		N- 2 (5.00-6.50) Sandy Silty gravel-sized ROCK FRAGMENTS, GM; brown (7.5YR 4/3), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation, (Fill).				
	N3	40	1-0-1	17	N- 3 (7.50-9.00) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose, fine angular to subangular gravel, fine to coarse sand, iron oxidation and staining, (Pleistocene Sand and Gravel).	**4.50 - 6.50 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; brown (7.5YR 4/3), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation, (Fill).**		N3: 35% fines.	
10	N4	60	4-9-26		N- 4 (10.00-11.50) DECOMPOSED BASALT, remolds to Silty SAND with trace gravel-sized rock fragments, SM; red-brown (5YR 4/4), nonplastic fines, moist, dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Decomposed Newberry Volcanics).	**6.50 - 9.00 Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose, fine angular to subangular gravel,**		Perched groundwater observed from 9.5 to 10.4 feet.	
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12						**fine to coarse sand, iron oxidation and staining, (Pleistocene Sand and Gravel).**			
	N5	7	50/1st 2"		N- 5 (12.50-12.70) BASALT; gray (N6), slightly weathered, (R3), joints indiscernible in SPT sample, (Newberry Volcanics).	**9.00 - 12.00 DECOMPOSED BASALT, remolds to Silty SAND with trace gravel-sized rock fragments, SM; red-brown (5YR 4/4), nonplastic fines, moist, dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation and staining, (Decomposed Newberry Volcanics).**			
15	N6	0	10/1st 0"		N- 6 (15.00-15.00) NO RECOVERY.				
	C1	75	(R3-R4) RQD = 50		C- 1 (15.00-16.00) BASALT; gray (N6), slightly weathered, (R3-R4), closely space, rough, undulating, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
	C2	100	(R4) RQD = 94		C- 2 (16.00-21.00) BASALT; gray (N6), slightly weathered, (R4), close to moderately spaced, smooth to smooth, planar and undulating, low to high angle joints with iron oxidation staining and occasional clayey infill, some vesicles, (Newberry Volcanics).	**12.00 - 16.00 BASALT; gray (N6), slightly weathered, (R3-R4), closely spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**		UCS C2 at 17.0 feet: 9,866 psi Lost DF circulaion at 19 feet.	
20						**16.00 - 26.00 BASALT; gray (N6), slightly weathered, (R4), close to modeately spaced, rough, planar, and undulating, low to high angle joints with iron oxidation and staining and silty and clayey infill, some vesicles, (Newberry Volcanics).**			
	C3	96	(R4) RQD = 88		C- 3 (21.00-26.00) BASALT; gray (N6), slightly weathered, (R4), close to modeately spaced, rough, planar, and undulating, low to high angle joints with iron oxidation and staining and silty infill, some vesicles, (Newberry Volcanics).			UCS C3 at 22.6 feet: 8,056 psi	
25									
	C4	100			C- 4 (26.00-31.00).				
	C4A		RQD = 96 (R3-R4)		C- 4A (26.00-30.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, smooth to rough, planar and undulating, low to high angle joints with iron oxidation and staining, highly vesicular., (Newberry Volcanics).	**26.00 - 30.00 BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, smooth to rough, planar and undulating, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).**			
30									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
30	C4B		(R4)		C- 4B (30.00-31.00) BASALT; gray (N6), slightly weathered, (R4), moderately spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).	**30.00 - 31.00 BASALT; gray (N6), slightly weathered, (R4), moderately spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**			
	C5	100	(R3-R4) RQD = 80		C- 5 (31.00-36.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar, low to high angle joints with iron oxidation and staining and occasional clayey infill, highly vesicular, (Newberry Volcanics).	**31.00 - 40.00 BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar, low to high angle joints with iron oxidation and staining and occasional clayey infill, highly vesicular, (Newberry Volcanics).**			
35	C6	100	(R3-R4) RQD = 85		C- 6 (36.00-40.00) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
40						**40.00 End of Hole.**			
45									
48									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**B-11**
Project **Reed Market Corridor Study**	Purpose **Retaining Wall**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **378,063.3**	Easting: **3,298,916.4**	Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3722.4 ft.**
Start Date **November 24, 2024**	End Date **November 24, 2024** Total Depth **25.00 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.80 Concrete: 10-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.80 - 1.30 Base Aggregate: 6-inches thick.			
	N1	67	10-12-17		N- 1 (2.50-4.00) Gravel-sized Rock Fragmenty Silty SAND, SM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).	**1.30 - 7.00 Gravel-sized Rock Fragmenty Silty SAND, to Gravel-sized Rock Fragmenty Silty SAND with cobble-sized rock fragments, SM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense to dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation, (Fill).**			
5	N2	80	48-39-8		N- 2 (5.00-6.50) Gravel-sized Rock Fragmenty Silty SAND, with cobble-sized rock fragments, SM; brown (7.5YR 4/3), nonplastic fines, moist, dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation, (Fill).				
	N3	73	1-2-9	14	N- 3 (7.50-9.00) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, medium dense, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).	**7.00 - 9.50 Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, medium dense, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).**		N3: 28% fines.	
10	N4	0	10/1st 0"		N- 4 (10.00-10.00) NO RECOVERY.	**9.50 - 17.80 BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, undulating, low to high angle joints with iron**			
	C1	80	(R3) RQD = 80		C- 1 (10.00-11.00) BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
	C2	92	(R3) RQD = 74		C- 2 (11.00-16.00) BASALT; gray (N6), slightly weathered, (R3), very close to moderately spaced, rough, undulating, low to high angle joints with iron oxidation and staining, highly vesicular., (Newberry Volcanics).			UCS C2 at 11.0 feet: 6,058 psi	
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12						**oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).**			
15	C3	100			C- 3 (16.00-21.00).				
	C3A		RQD = 96 (R3-R4)		C- 3A (16.00-17.80) BASALT; gray (N6), slightly weathered, (R3-R4), closely spaced, rough, undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).			Lost DF circulation around 17 feet.	
	C3B		(R4)		C- 3B (17.80-21.00) BASALT; gray (N6), slightly weathered, (R4), moderately spaced, rough, low angle joints with iron oxidation and staining, some vesicles., (Newberry Volcanics).	**17.80 - 25.00 BASALT; gray (N6), slightly weathered, (R4-R5), moderate to widely spaced, rough, planar, low to moderate angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**			
20	C4	100	(R4-R5) RQD = 90		C- 4 (21.00-25.00) BASALT; gray (N6), slightly weathered, (R4-R5), moderate to widely spaced, rough, planar, low to moderate angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
25						**25.00 End of Hole.**			
30									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-12**
Project **Reed Market Corridor Study**		Purpose **Retaining Wall**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **378,028.0**	Easting: **3,298,986.3**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3724.4 ft.**
Start Date **November 18, 2024**	End Date **November 18, 2024**	Total Depth **25.60 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Driving Resistance / Discontinuity Data Or RQD% (Soil / Rock)	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.80 Concrete: 10-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
	N1	80	12-12-8	12	N- 1 (2.50-4.00) Sandy Silty gravel-sized ROCK FRAGMENTS, GM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, disturbed texture, iron oxidation and staining, (Fill).	**0.80 - 3.80 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine gravel-sized angular to subangular rock fragments, fine to coarse sand, disturbed texture, iron oxidation and staining, (Fill).**			
5	N2	53	1-2-1	16	N- 2 (5.00-6.50) Silty SAND with trace gravel, SM; brown (7.5YR 4/3), nonplastic fines, moist, very loose, fine angular to subangular gravel, fine to coarse sand, (Pleistocene Sand and Gravel).	**3.80 - 10.40 Silty SAND with trace gravel, SM; brown (7.5YR 4/3), nonplastic fines, moist, very loose, fine angular to subangular gravel, fine to coarse sand, (Pleistocene Sand and Gravel).**		N2: 9% gravel, 61% sand, 30% fines.	
	N3	40	1-1-1	18	N- 3 (7.50-9.00) Silty SAND with trace gravel, SM; brown (7.5YR 4/3), nonplastic fines, moist, very loose, fine angular to subangular gravel, fine to coarse sand, (Pleistocene Sand and Gravel).				
10	N4	47	42-50/2"		N- 4 (10.00-10.60).				
	N4A				N- 4A (10.00-10.40) Silty SAND with trace gravel, SM; brown (7.5YR 4/3), nonplastic fines, moist, fine angular to subangular gravel, fine to coarse sand, (Pleistocene Sand and Gravel).				
	N4B	96	(R3) RQD = 82		N- 4B (10.40-10.60) BASALT; gray (N6), slightly weathered, joints indiscernible in SPT sample, (Newberry Volcanics).	**10.40 - 15.60 BASALT; gray (N6), slightly weathered, (R3), very close to moderately spaced, rough, low angle**			
	C1				C- 1 (10.60-15.60) BASALT; gray (N6), slightly weathered, (R3), very close to moderately spaced, rough,				
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level / Date	Backfill/ Instrumentation
12					low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).**		UCS C1 at 12.1 feet: 3,650 psi	
15	C2	100	(R4) RQD = 94		C- 2 (15.60-20.60) BASALT; gray (N6), slightly weathered, (R4), moderately spaced, smooth to rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).	**15.60 - 22.00 BASALT; gray (N6), slightly weathered, (R4), moderately spaced, smooth to rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**			
20	C3	100	RQD = 86 (R4)		C- 3 (20.60-25.60). C- 3A (20.60-22.00) BASALT; gray (N6), slightly weathered, (R4), moderately spaced, smooth to rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
	C3A								
	C3B		(R3)		C- 3B (22.00-25.60) BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough, undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**22.00 - 25.60 BASALT; gray (N6), slightly weathered, (R3), very close to closely spaced, rough, undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).**		Lost DF circulation at 22.5 feet.	
25						**25.60 End of Hole.**			
30									

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SHANNON & WILSON

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-13**
Project **Reed Market Corridor Study**		Purpose **Retaining Wall**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **378,062.7**	Easting: **3,299,104.5**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3728.3 ft.**
Start Date **November 24, 2024**	End Date **November 25, 2024**	Total Depth **20.00 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

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HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.80 Concrete: 9.5-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.80 - 1.40 Base Aggregate: 7-inches thick.			
						1.40 - 2.25 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; brown (7.5YR 4/3), nonplastic fines, moist, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).			
	N1	7	50/1st 1"		N- 1 (2.50-2.60) BASALT; slightly weathered, (R3), joints indiscernible in SPT sample, (Newberry Volcanics).				
5	N2	0	10/1st 0"		N- 2 (5.00-5.00) NO RECOVERY.	**2.25 - 20.00 BASALT; gray (N6), slightly weathered, (R3-R4), close to widely spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasinal mineral infill, some vesicles to highly vesicular, (Newberry Volcanics).**			
	C1	80	(R3) RQD = 80		C- 1 (5.00-6.00) BASALT; gray (N6), slightly weathered, (R3), closely spaced, rough, planar, high angle joints with iron oxide staining, some vesicles, (Newberry Volcanics).				
	C2	100	(R4) RQD = 88		C- 2 (6.00-11.00) BASALT; gray (N6), slightly weathered, (R4), close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasinal mineral infill, some vesicles, (Newberry Volcanics).			UCS C2 at 7.7 feet: 9,371 psi Lost DF circulation below 8 feet.	
10	C3	100	(R4) RQD = 100		C- 3 (11.00-16.00) BASALT; gray (N6), slightly weathered, (R4), moderate to widely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles to high vesicular, (Newberry Volcanics).				
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12									
15									
	C4	100	(R4) RQD = 100		C- 4 (16.00-20.00) BASALT; gray (N6), slightly weathered, (R4), widely spaced joints, some vesicles to highly vesicular., (Newberry Volcanics).				
20						**20.00** **End of Hole.**			
25									
30									

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SHANNON & WILSON

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**B-14**
Project **Reed Market Corridor Study**	Purpose **Retaining Wall**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **378,021.6**	Easting: **3,299,249.2**	Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3732.0 ft.**
Start Date **November 20, 2024**	End Date **November 20, 2024** / Total Depth **21.00 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0					SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.	**0.00 - 0.75 Concrete: 9-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.75 - 1.25 Base Aggregate: 6-inches thick.			
						1.25 - 4.00 Silty SAND with some gravel-sized rock fragments, SM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation, (Fill).			
	N1	73	5-6-8	11	N- 1 (2.50-4.00) Silty SAND with some gravel-sized rock fragments, SM; brown (7.5YR 4/3), nonplastic fines, moist, medium dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, iron oxidation, (Fill).			N1: 16% gravel, 66% sand, 18% fines.	
5	N2	0	50/1st 3"		N- 2 (5.00-5.30) NO RECOVERY.	**4.00 - 16.00 BASALT; gray (N6), slightly weathered, (R2-R4), very close to moderately spaced, smooth to rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasional silt infill, some vesicles to highly vesicular, (Newberry Volcanics).**			
	C1	100	(R2-R3) RQD = 100		C- 1 (5.30-6.00) BASALT; gray (N6), slightly weathered, (R2-R3), closely spaced, rough, planar, high angle joints with with iron oxidation and staining, highly vesicular, (Newberry Volcanics).				
	C2	100	(R2-R3) RQD = 96		C- 2 (6.00-11.00) BASALT; gray (N6), slightly weathered, (R2-R3), close to moderately spaced, rough, planar, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).			UCS C2 at 6.0 feet: 3,154 psi	
10									
	C3	100	(R3-R4) RQD = 62		C- 3 (11.00-16.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, smooth to rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasional silt infill, some vesicles, (Newberry Volcanics).				
12								Temporarily lost DF circulation around 11.5	

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12								feet.	
15									
	C4	100	(R4) RQD = 100		C- 4 (16.00-21.00) BASALT; gray (N6), slightly weathered, (R4), close to moderately spaced, smooth to rough, planar and undulating, low to high angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).	**16.00 - 21.00 BASALT; gray (N6), slightly weathered, (R4), close to moderately spaced, smooth to rough, planar and undulating, low to high angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).**		Lost DF circulation below 19.5 feet.	
20									
						21.00 End of Hole.			
25									
30									

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SHANNON & WILSON

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

		Hole No.	**B-15**
Project **Reed Market Corridor Study**	Purpose **Bridge Over-Crossing Canal**	E.A. No.	**N/A**
Highway **N/A**	County **Deschutes**	Key No.	**N/A**
Hole Location Northing: **377,854.2**	Easting: **3,298,266.6**	Start Card No.	**N/A**
Equipment **CME-85 Truck Rig**	Driller **Haz-Tech Drilling**	Bridge No.	**N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Connor McCord**	Ground Elev.	**3728.3 ft.**
Start Date **November 25, 2024**	End Date **November 25, 2024** / Total Depth **39.30 ft**	Tube Height	**N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.50 Gravel-sized Rock Fragmenty Silty SAND, SM; brown, nonplastic fines, moist, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
	N1	20	50/1st 5"		N- 1 (2.50-2.90) BASALT; gray (N6), slightly weathered, (R3-R4), joints indiscernible in SPT sample, (Newberry Volcanics).	**0.50 - 15.00 BASALT; gray (N6), fresh to slightly weathered, (R3-R4), very close to widely spaced, rough, undulating, low to moderate angle joints, with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).**			
	N2	13	50/1st 2"		N- 2 (4.25-4.40) BASALT; gray (N6), slightly weathered, (R3-R4), joints indiscernible in SPT sample, (Newberry Volcanics).				
	C1	80	(R3-R4) RQD = 80		C- 1 (4.50-5.00) BASALT; gray (N6), slightly weathered, (R3-R4), highly vesicular, (Newberry Volcanics).				
5	C2	100	(R4) RQD = 94		C- 2 (5.00-10.00) BASALT; gray (N6), slightly weathered, (R4), very close to widely spaced, rough, undulating, low angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).			UCS C2 at 9.1 feet: 8,648 psi	
10	C3	100	(R4) RQD = 100		C- 3 (10.00-15.00) BASALT; gray (N6), fresh to slightly weathered, (R4), very close to moderately spaced, rough, undulating, low to moderate angle joints, with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).				
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12									
15	C4	100	(R4) RQD = 100		C- 4 (15.00-20.00) BASALT; gray (N6), fresh to slightly weathered, (R4), close to widely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).	**15.00 - 27.00 BASALT; gray (N6), fresh to slightly weathered, (R4), close to widely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles to highly vesicular, (Newberry Volcanics).**			
20	C5	100	(R4) RQD = 100		C- 5 (20.00-25.00) BASALT; gray (N6), fresh, (R4), widely spaced joints, some vesicles, (Newberry Volcanics).			UCS C5 at 21.5 feet: 7,265 psi	
25	C6	100	RQD = 70 (R4)		C- 6 (25.00-30.00). C- 6A (25.00-27.00) BASALT; gray (N6), fresh to slightly weathered, (R4), moderately spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
	C6A								
	C6B		(R3-R4)		C- 6B (27.00-30.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to closely spaced, rough, planar, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**27.00 - 39.30 BASALT; gray (N6) and and moderate red (5R 4/6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining, some**		Lost DF circulation below 28 feet.	
30									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
30	C7	94	(R3) RQD = 60		C- 7 (30.00-35.00) BASALT; gray (N6) and moderate red (5R 4/6), slightly weathered, (R3), very close to closely spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasional silt infill, some vesicles to highly vesicular, (Newberry Volcanics).	**vesicles to highly vesicular, (Newberry Volcanics).**			
35	C8	84	(R3-R4) RQD = 74		C- 8 (35.00-39.30) BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).				
40						**39.30 End of Hole.**			
45									
48									

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SHANNON & WILSON

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-16**
Project **Reed Market Corridor Study**		Purpose **Bridge Over-Crossing Canal**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **377,936.2**	Easting: **3,298,326.1**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3727.5 ft.**
Start Date **November 25, 2024**	End Date **November 25, 2024**	Total Depth **40.00 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.30 Gravel fill: 4-inches thick, (Fill).**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
	N1	67	5-3-4	19	N- 1 (2.50-4.00) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, loose, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).	**0.30 - 12.00 Silty SAND to Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose to loose, fine angular to subangular gravel, fine to coarse sand, iron oxidation, trace organics, (Pleistocene Sand and Gravel).**			
5	N2	80	1-1-2	22	N- 2 (5.00-6.50) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).			N2: 1% gravel, 61% sand, 38% fines.	
								Free water observed on soil particles below 6.5 feet, but measurable groundwater was not observed.	
	N3	80	1-1-2	26	N- 3 (7.50-9.00) Silty SAND, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose, fine to coarse sand, trace rootlets, iron oxidation, (Pleistocene Sand and Gravel).				
10	N4	100	1-0-2	25	N- 4 (10.00-11.50) Silty SAND, SM; red-brown (5YR 4/4), nonplastic fines, moist, very loose, fine to medium sand, trace rootlets, iron oxidation, (Pleistocene Sand and Gravel).			Atterberg Limits N4: LL=NP, PL=NP, PI=NP; 40% fines.	
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12						**12.00 - 17.00 Sandy SILT with trace gravel, with possible cobbles, ML; red-brown (5YR 4/4), nonplastic fines, moist, very loose to loose, fine angular to subangular gravel, fine to coarse sand, iron oxidation, trace organics, (Pleistocene Sand and Gravel).**			
	N5	33	3-2-2	26	N- 5 (12.50-14.00) Sandy SILT with trace gravel, ML; red-brown (5YR 4/4), nonplastic, moist, very loose to loose, fine angular to subangular gravel, fine to coarse sand, trace organics, iron oxidation, (Pleistocene Sand and Gravel).				
15	N6	100	1-1-1	42	N- 6 (15.00-16.50) Sandy SILT with trace gravel, ML; red-brown (5YR 4/4), nonplastic, wet, very loose, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).			Atterberg Limits N6: LL=NP, PL=NP, PI=NP.	
	N7	13	50/1st 4"		N- 7 (17.50-17.80) BASALT; gray (N6), slightly weathered, (R3), joints indiscernible in SPT, (Newberry Volcanics).	**17.00 - 26.00 BASALT; gray (N6), slightly weathered, (R3), very close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and silt infill, highly vesicular, (Newberry Volcanics).**			
20	C1	20	(R3) RQD = 0		C- 1 (20.00-21.00) BASALT; gray (N6), slightly weathered, (R3), very closely spaced, rough, undulating, low angle joints with iron oxidation and staining and silt infill, highly vesicular, (Newberry Volcanics).				
	C2	100	(R3) RQD = 80		C- 2 (21.00-26.00) BASALT; gray (N6), slightly weathered, (R3), very close to moderately spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).			Lost DF circulation below 22 feet. UCS C2 at 22.2 feet: 3,843 psi	
25									
	C3	100	(R4) RQD = 100		C- 3 (26.00-31.00) BASALT; gray (N6), fresh, (R4), some vesicles to highly vesicular, no joints in core run, (Newberry Volcanics).	**26.00 - 36.00 BASALT; gray (N6), fresh, (R4), some vesicles to highly vesicular, (Newberry Volcanics).**		UCS C3 at 27.1 feet: 7,835 psi	
30									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
30									
	C4	100	(R4) RQD = 100		C- 4 (31.00-36.00) BASALT; gray (N6), fresh, (R4), some vesicles to highly vesicular, no joints in core run, (Newberry Volcanics).				
35									
	C5	100	(R3-R4) RQD = 85		C- 5 (36.00-40.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to closely spaced, rough, planar, low to high angle joints with iron oxide staining and occasional silt infill, highly vesicular, (Newberry Volcanics).	**36.00 - 40.00 BASALT; gray (N6), slightly weathered, (R3-R4), very close to closely spaced, rough, planar, low to high angle joints with iron oxide staining and occasional silt infill, highly vesicular, (Newberry Volcanics).**			
40						**40.00 End of Hole.**			
45									
48									

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SHANNON & WILSON

DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-17**
Project **Reed Market Corridor Study**		Purpose **Retaining Wall**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **378,192.6**	Easting: **3,298,790.6**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3718.8 ft.**
Start Date **November 22, 2024**	End Date **November 22, 2024**	Total Depth **22.00 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
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Drilling Methods	Drilling Remarks
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DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.50 Asphalt: 6-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.50 - 1.00 Base Aggregate: 6-inches thick.			
						1.00 - 2.00 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; brown, nonplastic fines, moist, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).			
	N1	67	6-7-15		N- 1 (2.50-4.00) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, medium dense, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).				
						2.00 - 6.70 Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, medium dense to dense, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).			
5	N2	80	5-18-18		N- 2 (5.00-6.50) Silty SAND with trace gravel, SM; red-brown (5YR 4/4), nonplastic fines, moist, dense, fine angular to subangular gravel, fine to coarse sand, iron oxidation, (Pleistocene Sand and Gravel).				
	C1	98			C- 1 (6.70-11.00).				
	C1A		RQD = 84 (R3-R4)		C- 1A (6.70-8.70) BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**6.70 - 8.70 BASALT; gray (N6), slightly weathered, (R3-R4), close to moderately spaced, rough, undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).**			
	C1B		(R4)		C- 1B (8.70-11.00) BASALT; gray (N6), fresh to slightly weathered, (R4), moderately spaced, rough, undulating, low angle joints with rion oxidation and staining, some vesicles, (Newberry Volcanics).				
10						**8.70 - 11.90 BASALT; gray (N6), slightly weathered, (R4-R5), moderately spaced, rough, undulating, low angle joints with rion oxidation and staining, some vesicles, (Newberry**		UCS C1 at 10.3 feet: 11,419 psi	
	C2	100			C- 2 (11.00-16.00).				
	C2A		RQD = 66 (R4-R5)		C- 2A (11.00-11.90) BASALT; gray (N6), slightly weathered, (R4-R5), moderately spaced, rough, undulating, low angle joints with rion oxidation and staining, some vesicles, (Newberry Volcanics).				
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level / Date	Backfill/ Instrumentation
12	C2B		(R3-R4)		C- 2B (11.90-16.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar to undulating, low to high angle joints with iron oxidation and staining and mineral coating on joint surfaces, highly vesicular, (Newberry Volcanics).	**Volcanics).** **11.90 - 22.00 BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar to undulating, low to high angle joints with iron oxidation and staining and mineral coating on joint surfaces, highly vesicular, (Newberry Volcanics).**		Lost DF circulation below 12 feet.	
15	C3	100	(R3-R4) RQD = 90		C- 3 (16.00-21.00) BASALT; gray (N6), slightly weathered, (R3-R4), very close to moderately spaced, rough, planar and undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).				
20	C4	100	(R3-R4) RQD = 100		C- 4 (21.00-22.00) BASALT; gray (N6), slightly weathered, (R3-R4), closely spaced, rough, undulating, low angle joints with iron oxidation and staining, highly vesicular, (Newberry Volcanics).	**22.00 End of Hole.**			
25									
30									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

			Hole No. **B-18**
Project **Reed Market Corridor Study**		Purpose **Retaining Wall**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **378,256.0**	Easting: **3,298,728.2**		Start Card No. **N/A**
Equipment **CME-85 Truck Rig**		Driller **Haz-Tech Drilling**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Connor McCord**	Ground Elev. **3718.3 ft.**
Start Date **November 21, 2024**	End Date **November 21, 2024**	Total Depth **19.50 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.40 Asphalt: 5-inches thick.**		Boring initiated using hollow-stem auger drilling techniques (8-inch diameter hole).	
						0.40 - 1.10 Base Aggregate: 8-inches thick.			
						1.10 - 2.80 Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown, nonplastic fines, moist, very dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill).			
	N1 N1A N1B	53	32-50/4.5"		N- 1 (2.50-3.40). N- 1A (2.50-2.80) Sandy Silty gravel-sized ROCK FRAGMENTS, GM; gray-brown, nonplastic fines, moist, very dense, fine to coarse gravel-sized angular to subangular rock fragments, fine to coarse sand, (Fill). N- 1B (2.80-3.40) BASALT; gray (N6), (R3), joints indiscernible in SPT sample, (Newberry Volcanics).				
	N2	0	10/1st 0"		N- 2 (4.00-4.00) NO RECOVERY.				
	C1	93	(R3-R4) RQD = 93		C- 1 (4.00-5.50) BASALT; gray (N6), fresh to slightly weathered, (R3-R4), some vesicles, joints not observed in core run, (Newberry Volcanics).			UCS C1 at 4.0 feet: 4,543 psi	
5						**2.80 - 15.50 BASALT; gray (N6), fresh to slightly weathered, (R3-R5), very close to widely spaced, rough, planar and undulating, low to moderate angle joints with iron oxidation and staining, some vesicles with occasional 1- to 2-inch thick highly vesicular zones, (Newberry Volcanics).**			
	C2	95	(R4) RQD = 90		C- 2 (5.50-9.50) BASALT; gray (N6), fresh to slightly weathered, (R4), very close to moderately spaced, rough, planar and undulating, low to moderate angle joints with iron oxidation and staining, some vesicles with occasional 1- to 2-inch thick highly vesicular zones, (Newberry Volcanics).				
	C3	100	(R4) RQD = 50		C- 3 (9.50-10.50) BASALT; gray (N6), fresh to slightly weathered, (R4), very close to closely spaced, smooth to rough, planar and undulating, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
10	C4	100	(R4-R5) RQD = 100		C- 4 (10.50-15.50) BASALT; gray (N6), fresh to slightly weathered, (R4-R5), widely spaced, rough, planar, low angle joints with iron oxidation and staining, some vesicles, (Newberry Volcanics).				
12									

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Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
12									
15	C5	100	(R3-R4) RQD = 70		C- 5 (15.50-19.50) BASALT; gray (N6), slightly weathered, (R3-R4), very close to closely spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasional silt infill, some vesicles to highly vesicular, (Newberry Volcanics).	**15.50 - 19.50 BASALT; gray (N6), slightly weathered, (R3-R4), very close to closely spaced, rough, planar and undulating, low to high angle joints with iron oxidation and staining and occasional silt infill, some vesicles to highly vesicular, (Newberry Volcanics).**		Lost DF circulation below 16 feet.	
20						**19.50 End of Hole.**			
25									
30									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

Figure **A19**
Page **1** of **1**

		Hole No. **TP-01**
Project **Reed Market Corridor Study**	Purpose **Infiltration**	E.A. No. **N/A**
Highway **N/A**	County **Deschutes**	Key No. **N/A**
Hole Location Northing: **~ 378,014** Easting: **~ 3,298,691**		Start Card No. **N/A**
Equipment **Takeuchi TP250-2 Mini-Excavator**	Driller **Western States**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**	Recorder **Nick Berry**	Ground Elev. **~ 3720 ft.**
Start Date **March 19, 2025** End Date **March 19, 2025**	Total Depth **8.00 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil / Rock: Driving Resistance / Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0					SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.	**0.00 - 0.20 TOPSOIL, (Fill).**		Test pit advanced with Takeuchi TP250-2 Mini-Excavator, attached with a 2-foot wide bucket.	NATIVE MATERIAL
	JAR1	100			JAR- 1 (1.00-1.50) Sandy gravel-sized ROCK FRAGMENTS with some silt, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse, angular to subrounded gravel-sized rock fragments, fine to coarse sand, (Fill).	**0.20 - 4.00 Sandy gravel-sized ROCK FRAGMENTS with some silt, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse gravel-sized angular to subrounded rock fragments, fine to coarse sand, (Fill).**			
	JAR2	100			JAR- 2 (2.50-2.80) Sandy gravel-sized ROCK FRAGMENTS with some silt, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse, angular to subrounded gravel-sized rock fragments, fine to coarse sand, (Fill).				
5	JAR3	100			JAR- 3 (5.00-5.30) Silty SAND with gravel, with cobbles, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse, subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).	**4.00 - 8.00 Silty SAND with gravel, with cobbles to Silty SAND with gravel, with cobbles and possible boulders, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).**		More cobble-sized basalt fragments	
	JAR4	100			JAR- 4 (5.70-6.00) Silty SAND with gravel, with cobbles, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse, subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).				
	JAR5	100			JAR- 5 (6.50-7.00) Silty SAND with gravel, with cobbles, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse, subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).			Test pit overexcavated from 6 to 8 feet following infilitration test.	
	JAR6	100			JAR- 6 (7.80-8.00) Silty SAND with gravel, with cobbles with possible boulders, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse, subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).	**8.00 End of Hole.**			
10									
12									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

Figure **A20**
Page **1** of **1**

			Hole No. **TP-02**
Project **Reed Market Corridor Study**		Purpose **Infiltration**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **~ 378,024**		Easting: **~ 3,298,192**	Start Card No. **N/A**
Equipment **Takeuchi TP250-2 Mini-Excavator**		Driller **Western States**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Nick Berry**	Ground Elev. **~ 3730 ft.**
Start Date **March 19, 2025**	End Date **March 19, 2025**	Total Depth **4.30 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
J - Joint	Pl - Planar	P - Polished
F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil: Driving Resistance / Rock: Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.20 TOPSOIL, (Fill).**		Test pit advanced with Takeuchi TP250-2 Mini-Excavator, attached with a 2-foot wide bucket.	NATIVE MATERIAL
	TP1	100			TP- 1 (1.00-1.50) Sandy gravel-sized ROCK FRAGMENTS with some silt with cobbles, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse, angular to subrounded gravel, fine to coarse sand, (Fill).	**0.20 - 4.00 Gravel-sized ROCK FRAGMENTS with sand and silt, with cobble-sized rock fragments, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse gravel-sized angular to subrounded rock fragments, fine to coarse sand, slight iron oxidation and staining, (Fill).**			
	TP2	100			TP- 2 (2.00-2.50) Gravel-sized ROCK FRAGMENTS with sand and silt, with cobbles, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse, angular to subrounded gravel, fine to coarse sand, (Fill).			Basalt bedrock encountered at ~4 feet.	
	TP3	100			TP- 3 (3.90-4.00) Gravel-sized ROCK FRAGMENTS with sand and silt, with cobbles, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse, angular to subrounded gravel, fine to coarse sand, slight iron oxidation and staining, (Fill).				
5						**4.00 - 4.30 BASALT; gray (N6), slightly weathered, (R3-R4), moderately vesicular, iron oxidation and staining, (Newberry Volcanics).**			
10						**4.30 End of Hole.**			
12									

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DRILL LOG

OREGON DEPARTMENT OF TRANSPORTATION

Figure **A21**
Page **1** of **1**

			Hole No. **TP-03**
Project **Reed Market Corridor Study**		Purpose **Infiltration**	E.A. No. **N/A**
Highway **N/A**		County **Deschutes**	Key No. **N/A**
Hole Location Northing: **~ 378,197**		Easting: **~ 3,298,737**	Start Card No. **N/A**
Equipment **Takeuchi TP250-2 Mini-Excavator**		Driller **Western States**	Bridge No. **N/A**
Project Geologist **David S. Jacobson, RG**		Recorder **Nick Berry**	Ground Elev. **~ 3720 ft.**
Start Date **March 18, 2025**	End Date **March 18, 2025**	Total Depth **7.80 ft**	Tube Height **N/A**

Test Type

"A" - Auger Core
"X" - Auger
"C" - Core, Barrel Type
"N" - Standard Penetration
"D&M" - Dames & Moore
"U" - Shelby Tube
"GP" - GeoProbe®
"T" - Test Pit
"S" - Sonic Core

Rock Abbreviations

Discontinuity	Shape	Surface Roughness
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F - Fault	C - Curved	Sl - Slickensided
B - Bedding	U - Undulating	Sm - Smooth
Fo - Foliation	St - Stepped	R - Rough
S - Shear	Ir - Irregular	VR - Very Rough

Typical Drilling Abbreviations

Drilling Methods	Drilling Remarks
WL - Wire Line	LW - Lost Water
HS - Hollow Stem Auger	WR - Water Return
DF - Drill Fluid	WC - Water Color
SA - Solid Auger	DP - Down Pressure
CA - Casing Advancer	DR - Drill Rate
HA - Hand Auger	DA - Drill Action

Depth (ft)	Test Type, No.	Percent Recovery	Soil: Driving Resistance / Rock: Discontinuity Data Or RQD%	Percent Natural Moisture	Material Description (SOIL: Soil Name, USCS, Color, Plasticity, Moisture, Consistency/Relative Density, Texture, Cementation, Structure, Origin. ROCK: Rock Name, Color, Weathering, Strength, Discontinuity Spacing, Joint Filling, Core Recovery, Formation Name.)	Unit Description	Graphic Log	Drilling Methods, Size and Remarks / Water Level/ Date	Backfill/ Instrumentation
0						**0.00 - 0.30 TOPSOIL, (Fill).**		Test pit advanced with Takeuchi TP250-2 Mini-Excavator, attached with a 2-foot wide bucket.	NATIVE MATERIAL
	TP1	100			TP- 1 (0.50-0.70) Sandy gravel-sized ROCK FRAGMENTS with some silt, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse, subangular to rounded gravel-sized rock fragments, fine to coarse sand, (Fill).	**0.30 - 1.00 Sandy gravel-sized ROCK FRAGMENTS with some silt, GP-GM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse gravel-sized subangular to rounded rock fragments, fine to coarse sand, (Fill).**			
	TP2	100			TP- 2 (1.00-1.30) Silty SAND with some gravel-sized rock fragments, SM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse, subangular to rounded gravel-sized rock fragments, fine to coarse sand, (Fill).				
	TP3	100			TP- 3 (3.00-3.50) Silty SAND with some gravel, with cobbles, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse, subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).	**1.00 - 2.50 Silty SAND with some gravel-sized rock fragments, SM; gray-brown (10YR 5/2), nonplastic fines, moist, fine to coarse gravel-sized subangular to rounded rock fragments, fine to coarse sand, (Fill).**			
5	TP4	100			TP- 4 (5.00-5.50) Silty SAND with some gravel, with cobbles, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse, subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).				
	TP5	100			TP- 5 (6.70-7.00) Silty SAND with some gravel, with cobbles, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse, subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).	**2.50 - 7.00 Silty SAND with some gravel, with cobbles, SM; red-brown (5YR 4/4), nonplastic fines, moist, fine to coarse, subangular to subrounded gravel, fine to coarse sand, trace organics, (Pleistocene Sand and Gravel).**		Test Pit over-excavated from 7 to 7.8 feet following infiltration test.	
10						**7.00 - 7.80 BASALT; gray (N6), slightly weathered, (R3-R4), moderately vesicular, iron oxidation and staining, (Newberry Volcanics).**			
12						**7.80 End of Hole.**			

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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-02 (9.5 – 25.0 ft.)

April 2025 113462

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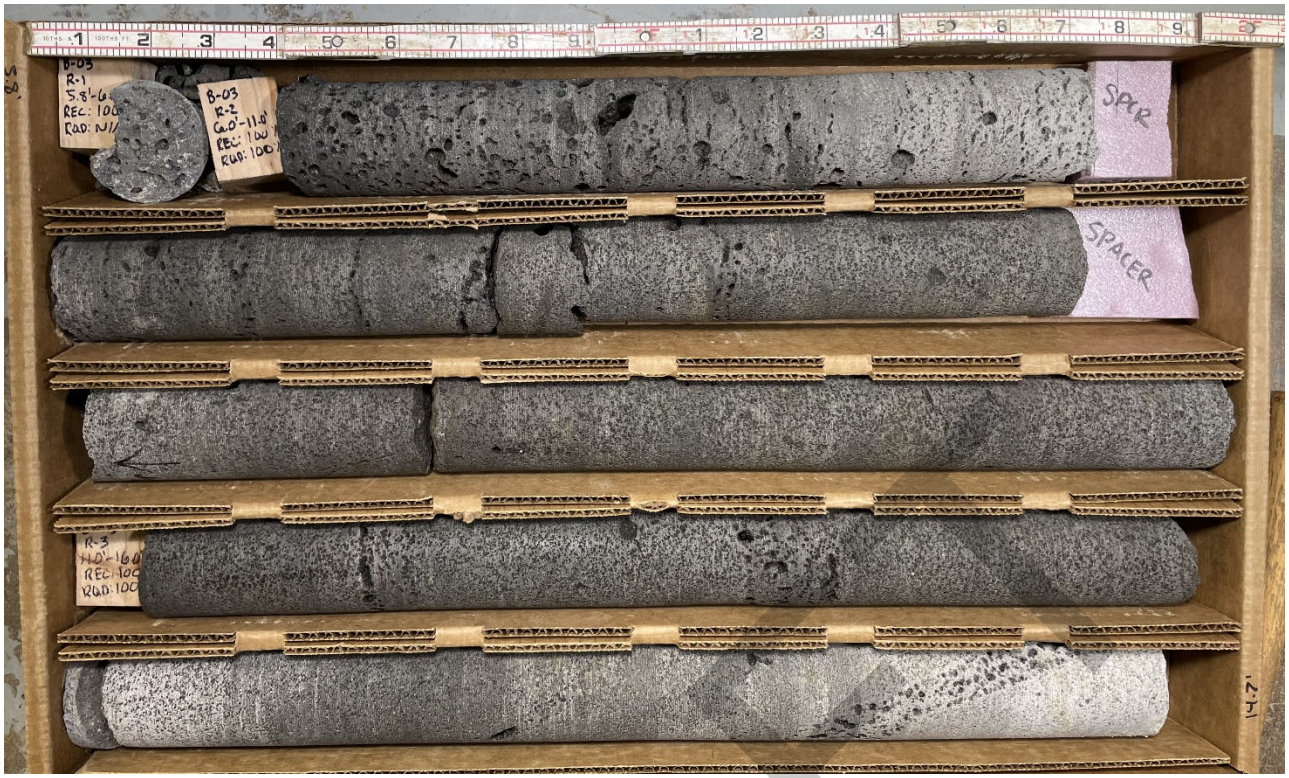
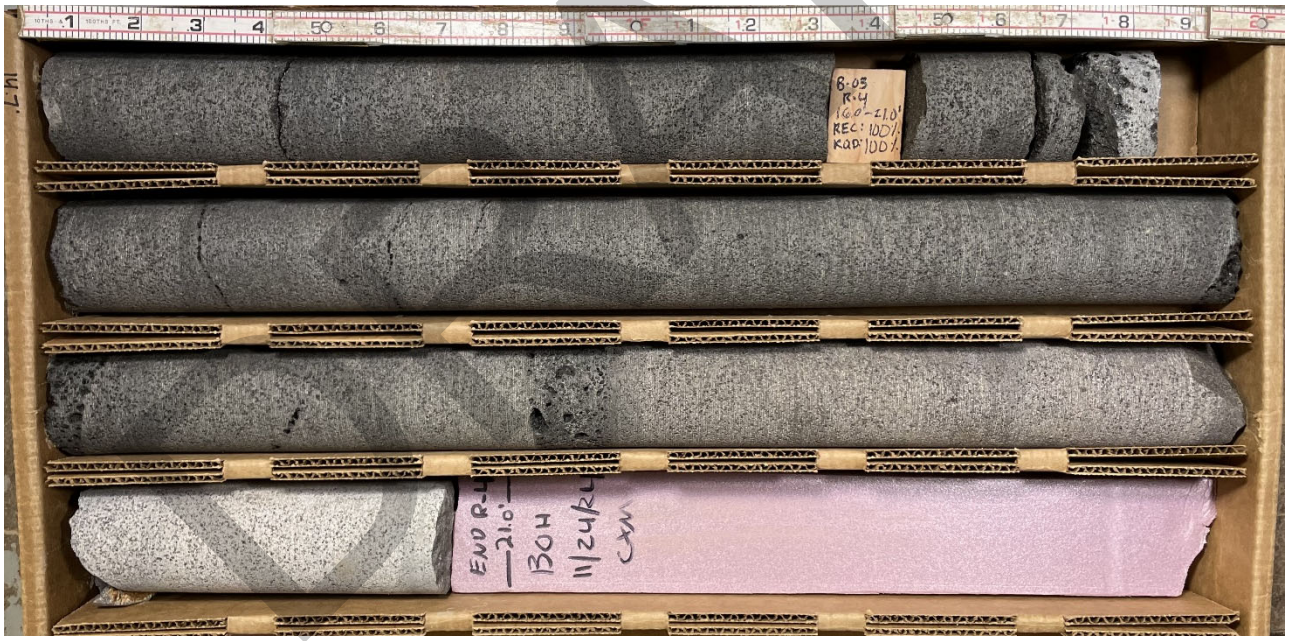
FIG A22





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-03 (5.8 – 21.0 ft.)

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FIG A23
Sheet 1 of 2





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-04 (14.0 – 31.9 ft.)

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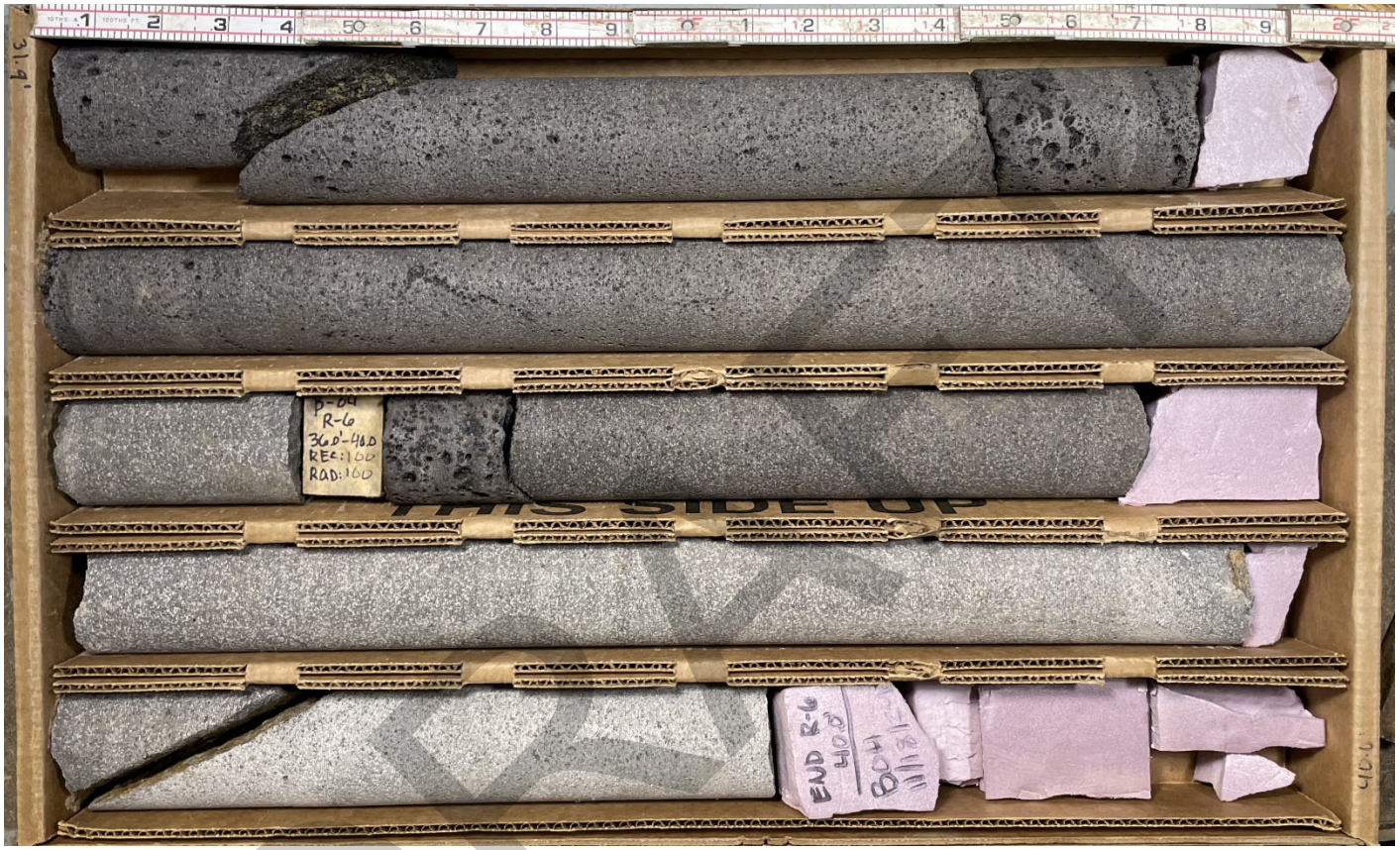
FIG A24
Sheet 1 of 2



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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-04 (31.9 – 40.0 ft.)

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FIG A24
Sheet 2 of 2





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-05 (10.0 – 27.6 ft.)

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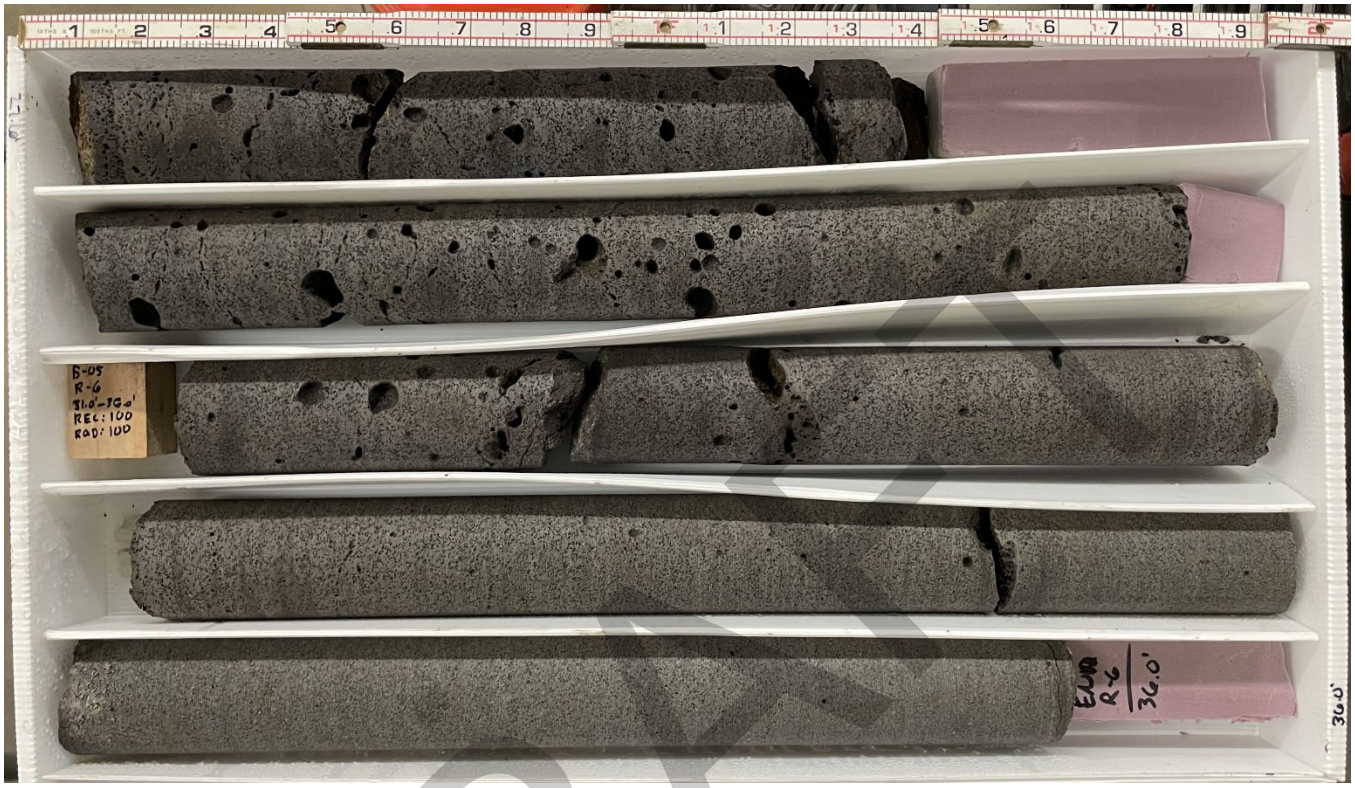
FIG A25
Sheet 1 of 2





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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-05 (27.6 – 38.5 ft.)

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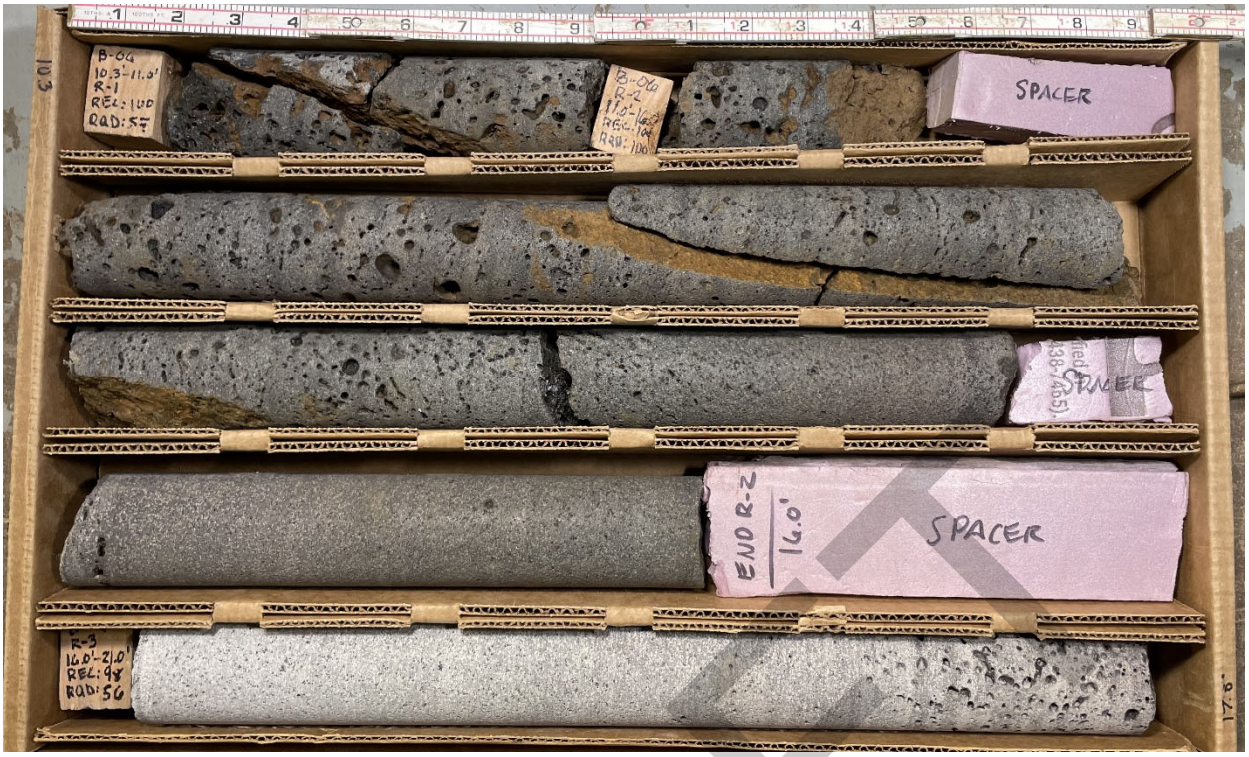
FIG A25
Sheet 2 of 2





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-06 (10.3 – 27.3 ft.)

April 2025 113462

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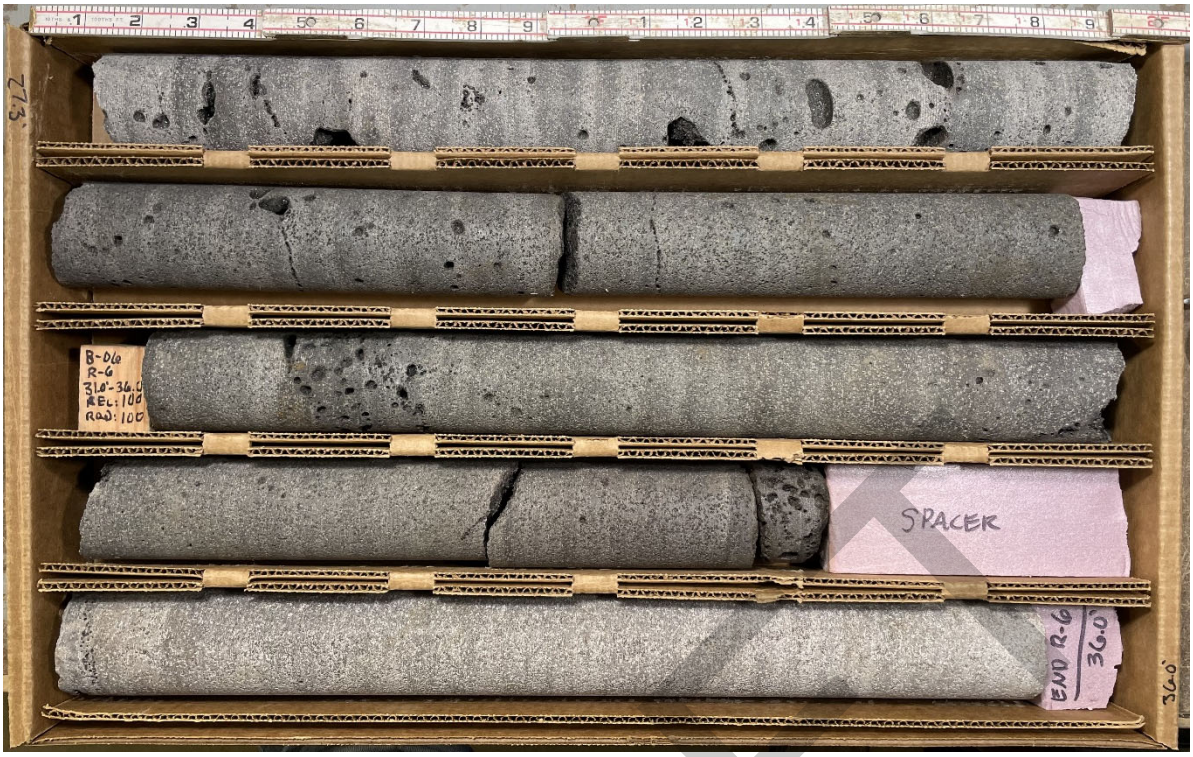
FIG A26
Sheet 1 of 3





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-06 (27.3 – 46.0 ft.)

April 2025 113462

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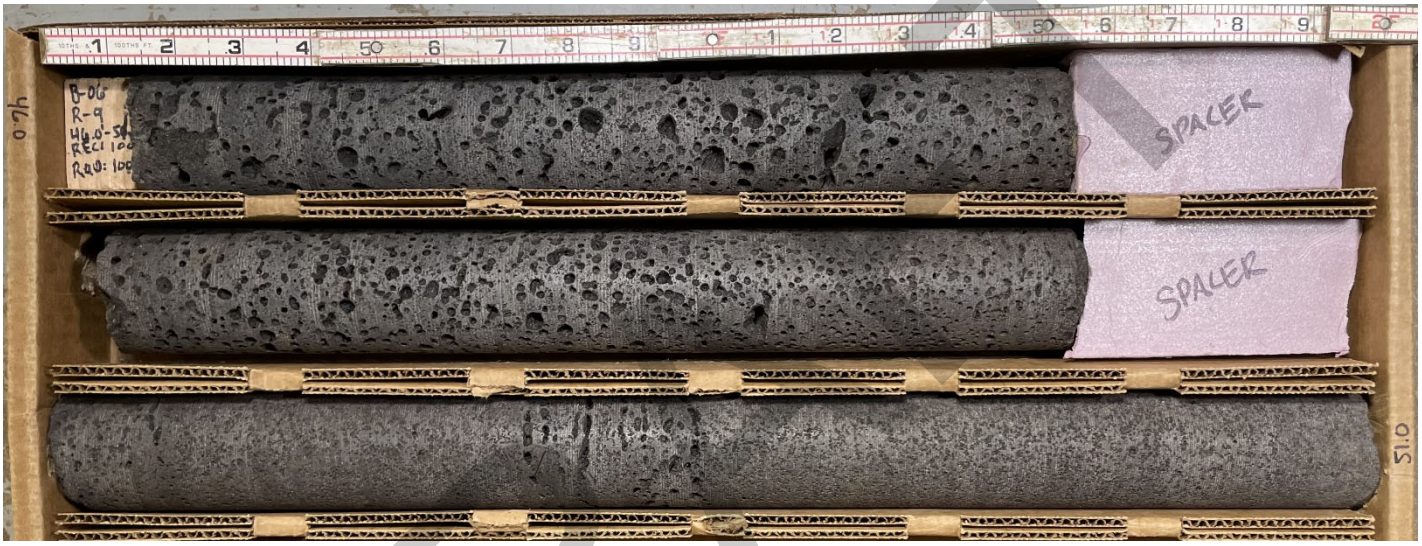
Geotechnical and Environmental Consultants

FIG A26
Sheet 2 of 3



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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-06 (46.0 – 51.0 ft.)

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FIG A26
Sheet 3 of 3





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-07 (10.1 – 27.9 ft.)

April 2025 113462

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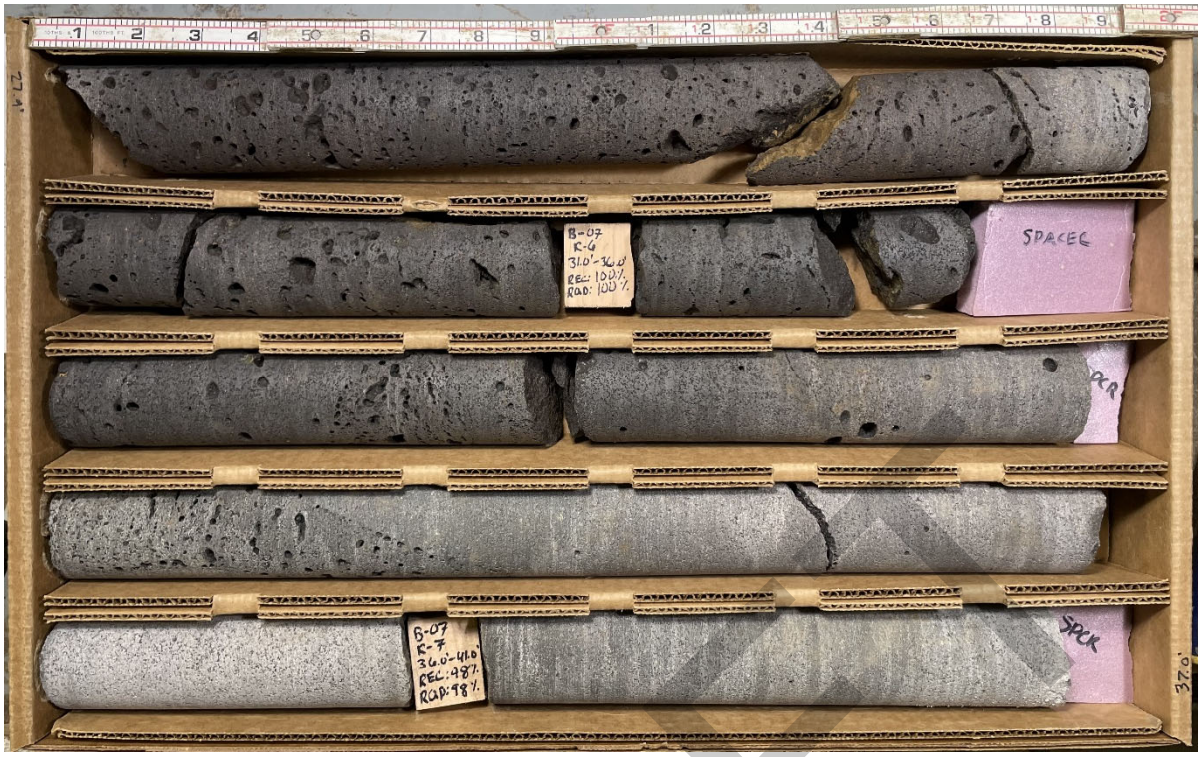
FIG A27
Sheet 1 of 3





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-07 (27.9 – 46.0 ft.)

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FIG A27
Sheet 2 of 3



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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-07 (46.0 – 50.0 ft.)

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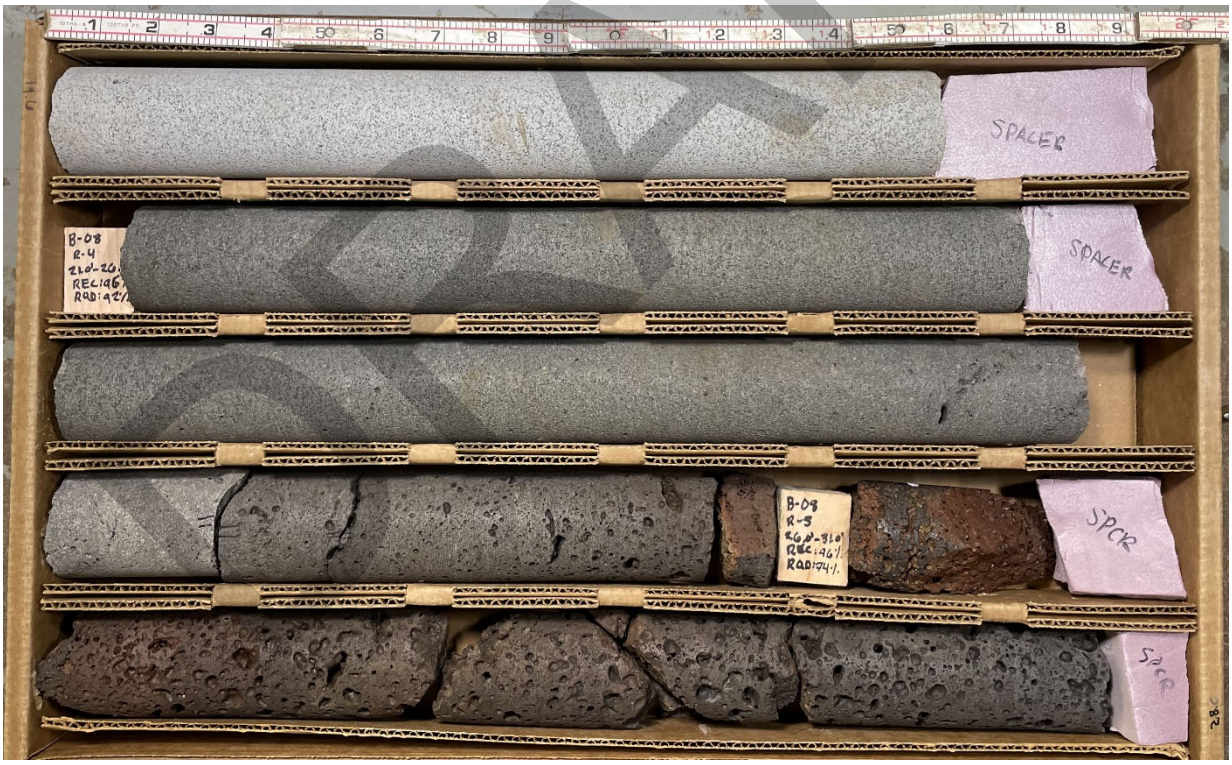
FIG A27
Sheet 3 of 3





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-08 (10.8 – 28.0 ft.)

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FIG A28
Sheet 1 of 3



Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-08 (28.0 – 46.0 ft.)

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FIG A28
Sheet 2 of 3



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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-08 (46.0 – 50.0 ft.)

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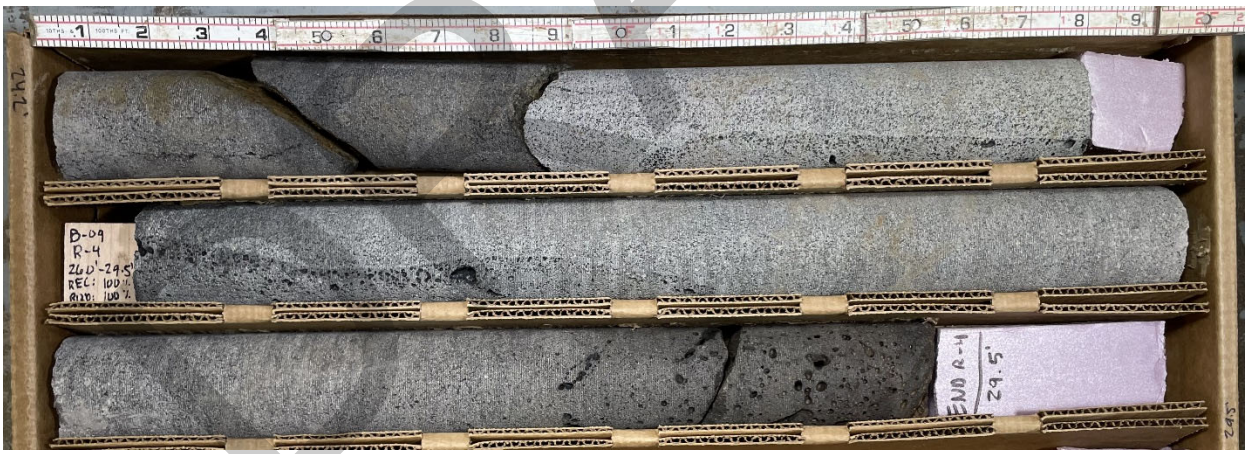
FIG A28
Sheet 3 of 3





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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-09 (14.5 – 29.5 ft.)

April 2025 113462

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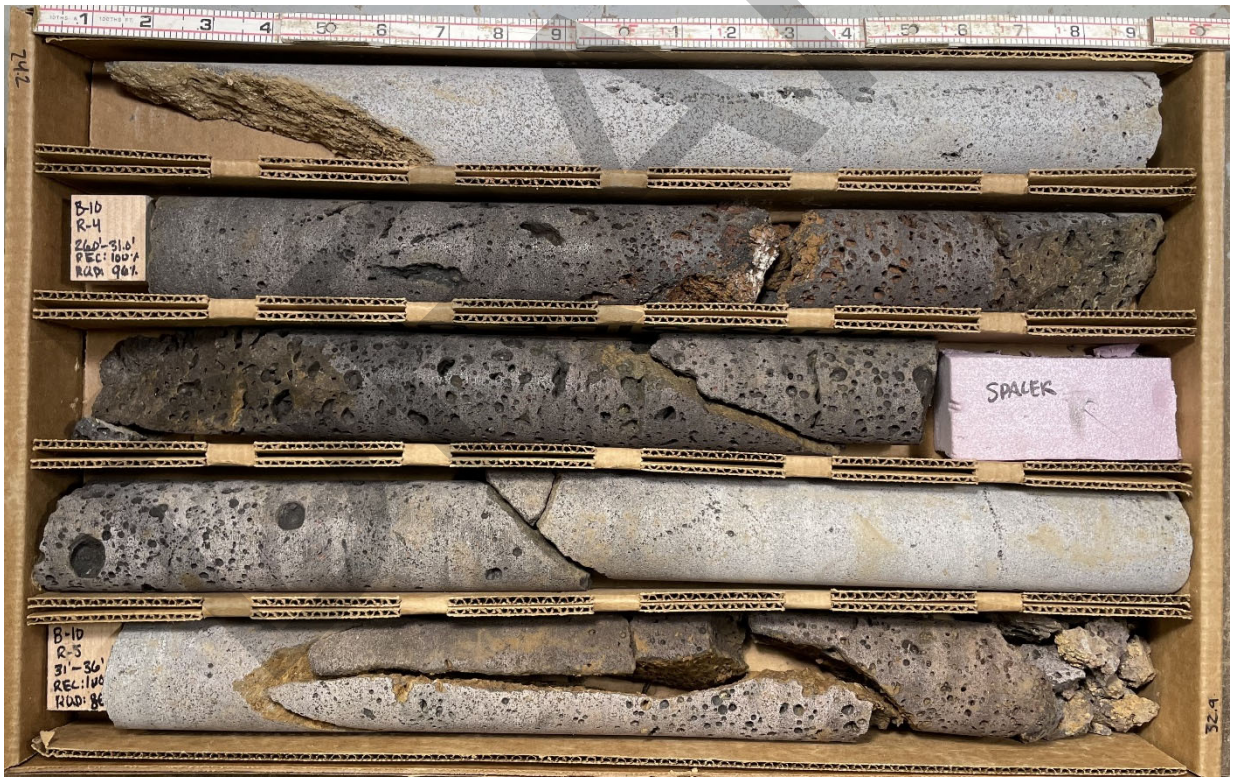
FIG A29





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-10 (15.0 – 32.9 ft.)

April 2025 113462

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FIG A30
Sheet 1 of 2



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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-10 (32.9 – 40.0 ft.)

April 2025 113462

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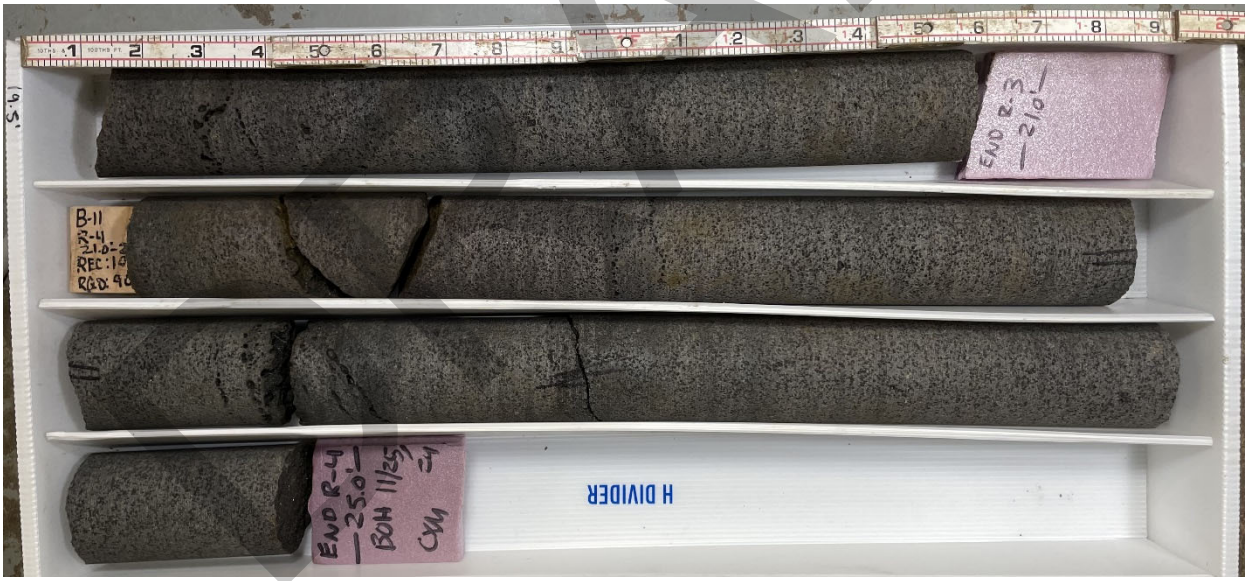
FIG A30
Sheet 2 of 2





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-11 (10.0 – 25.0 ft.)

April 2025 113462

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FIG A31





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-12 (10.0 – 25.6 ft.)

April 2025 113462

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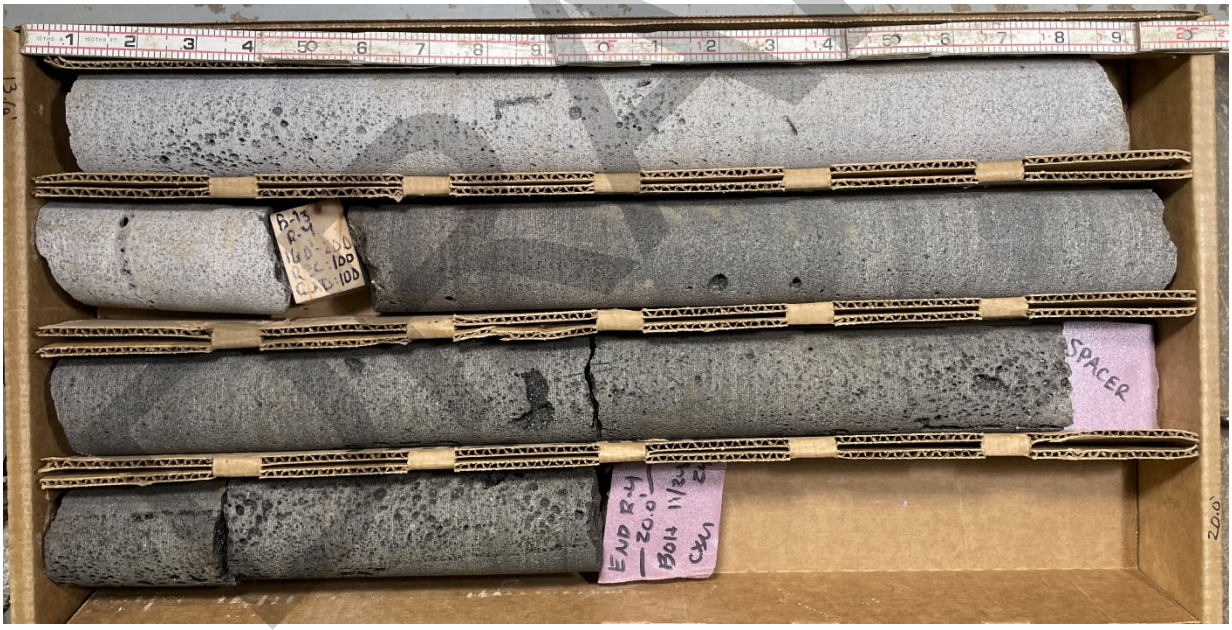
FIG A32





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-13 (5.0 – 20.0 ft.)

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FIG A33





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-14 (5.3 – 21.0 ft.)

April 2025 113462

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FIG A34



Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-15 (4.5 – 15.0 ft.)

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FIG A35
Sheet 1 of 3



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Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-15 (15.0 – 26.0 ft.)

April 2025 113462

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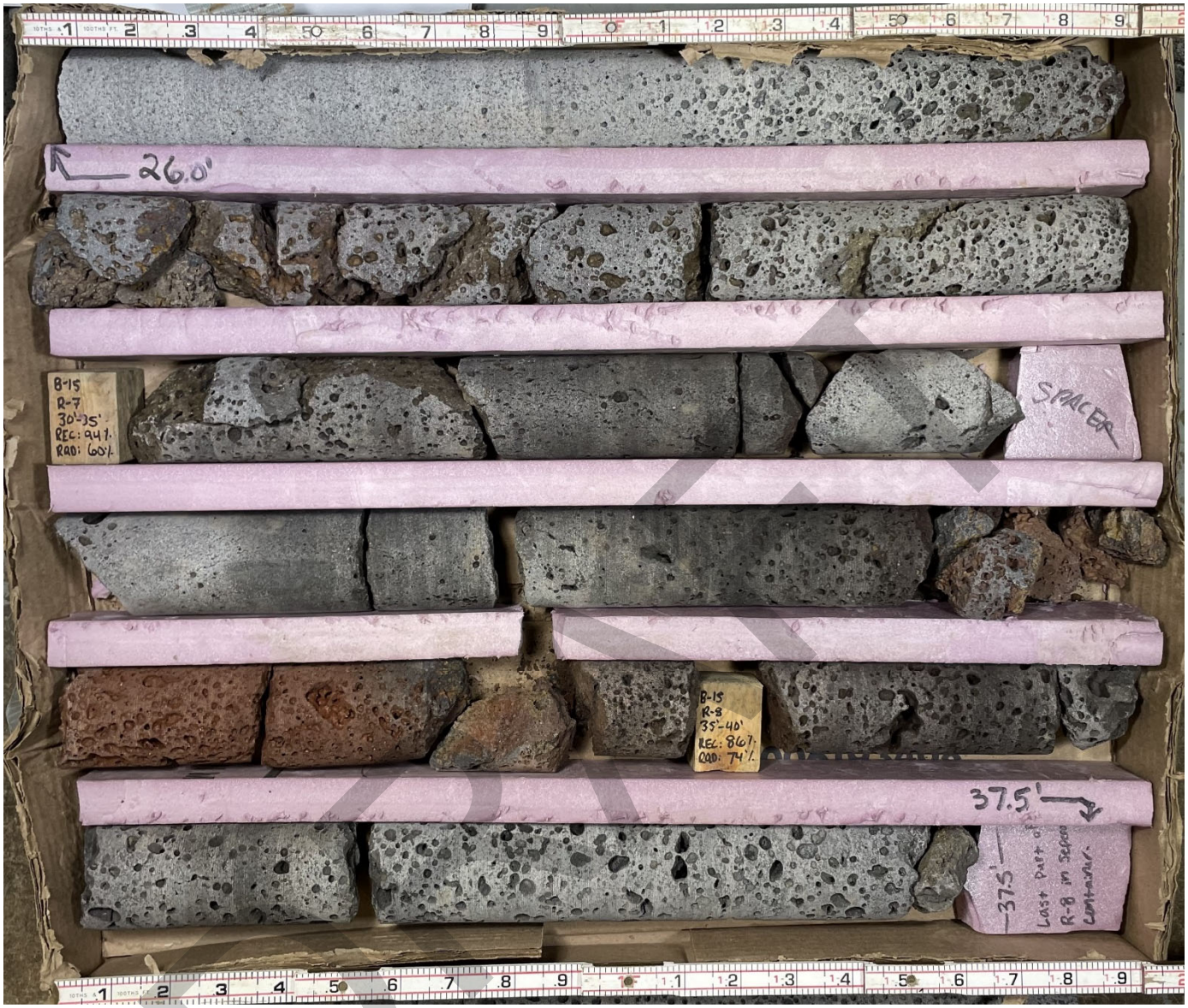
FIG A35
Sheet 2 of 3





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-15 (26.0 – 39.3 ft.)

April 2025 113462

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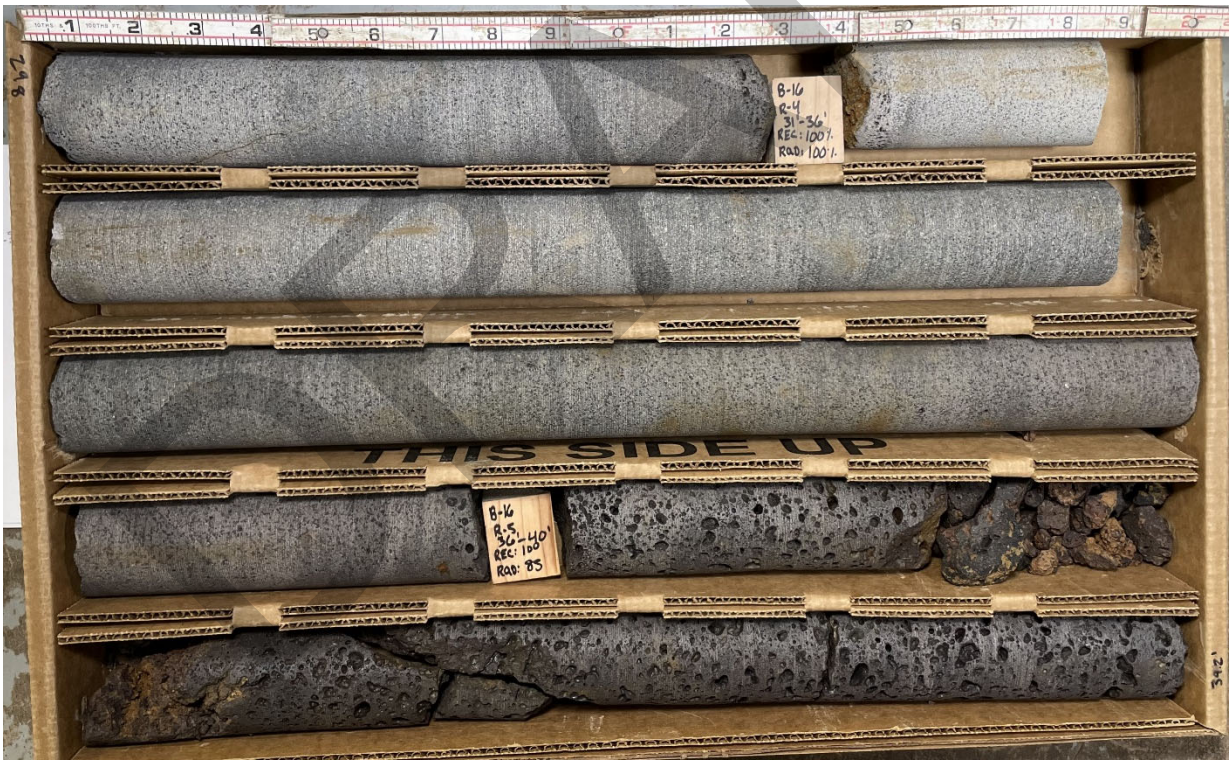
FIG A35
Sheet 3 of 3







Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-16 (20.0 – 40.0 ft.)

April 2025 113462

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FIG A36



Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-17 (6.7 – 22.0 ft.)

April 2025 113462

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FIG A37





Reed Market Corridor Study
Deschutes County, Oregon

ROCK CORE PHOTOGRAPH
B-18 (4.0 – 19.5 ft.)

April 2025 113462

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FIG A38

SHANNON & WILSON

Location: S of SE Reed Market Road, nearest intersection SE 9th Street	**Date:** 03/19/2025 **Job Number:** 113462	**Infiltration Test Number:** TP-01
Depth to bottom of hole: 6.1 ft	**Pit Dimensions:** 5 ft long, 2.2 ft wide, 6.1 ft deep	**Test Method:** Test Pit Method

Tester's Name: Nicholas Berry
Tester's Company: Shannon & Wilson, Inc.

Time	Time Interval (Minutes)	Head (feet)	Flow rate (cfs)	Remarks
16:12	0	0.5	0.00371	1550: Water introduced to test pit with garden hose. Flow rate of ~1.7 gallons per minute.
16:27	15	0.52	0.00061	
16:42	15	0.51	0.00027	
16:57	15	0.51	0.00045	
17:12	15	0.51	0.00044	
17:27	15	0.5	0.00045	
17:42	15	0.51	0.00044	
17:57	15	0.5	0.00043	
18:12	15	0.51	0.00045	

Time	Time Interval (minutes)	Measurement (feet)	Head (feet)	Drop in Water Level (feet)	Infiltration rate (inches per hour)	Remarks
18:15	--	5.61	0.51	--	--	
18:20	5	5.62	0.50	0.01	1.44	
18:25	5	5.63	0.49	0.01	1.44	1814: Water flow into test pit stopped.
18:30	5	5.63	0.49	0.00	0.00	
18:35	5	5.65	0.47	0.02	2.88	
18:40	5	5.65	0.47	0.00	0.00	
18:45	5	5.65	0.47	0.00	0.00	

Test method taken from Appendix 4C of Central Oregon Stormwater Manual

Reed Market Corridor Study
Bend, Oregon

INFILTRATION TEST RESULTS Test Pit TP-01

May 2025 113462

FIG. A39

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SHANNON & WILSON

Location: S of SE Reed Market Rd, E of intersection w/ SE American Ln	**Date:** 03/19/2025 **Job Number:** 113462	**Infiltration Test Number:** TP-02
Depth to bottom of hole: 4.3 ft	**Pit Dimensions:** 4 ft long, 2.2 ft wide, 4.3 ft deep	**Test Method:** Test Pit Method

Tester's Name: Nicholas Berry
Tester's Company: Shannon & Wilson, Inc.

Time	Time Interval (Minutes)	Head (feet)	Flow rate (cfs)	Remarks
11:30	**0**	0.39	0.00361	1115: Water introduced to test pit with garden hose. Flow rate of ~1.6 gallons per minute.
11:45	15	0.53	0.00242	
12:00	15	0.55	0.00046	
12:15	15	0.56	0.00048	
12:30	15	0.57	0.00036	
12:45	15	0.56	0.00036	
13:00	15	0.57	0.00035	
13:15	15	0.57	0.00036	
13:30	15	0.57	0.00035	

Time	Time Interval (minutes)	Measurement (feet)	Head (feet)	Drop in Water Level (feet)	Infiltration rate (inches per hour)	Remarks
13:35	--	3.53	0.57	--	--	
13:40	5	3.54	0.56	0.01	1.44	
13:45	5	3.55	0.55	0.01	1.44	1334: Water flow into test pit stopped.
13:50	5	3.56	0.54	0.01	1.44	
13:55	5	3.56	0.54	0.00	0.00	
14:00	5	3.57	0.53	0.01	1.44	
14:05	5	3.58	0.52	0.01	1.44	

Test method taken from Appendix 4C of Central Oregon Stormwater Manual

Reed Market Corridor Study
Bend, Oregon

INFILTRATION TEST RESULTS Test Pit TP-02

May 2025 113462

FIG. A40

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SHANNON & WILSON

Location: W of SE 9th Street, S of nearest int. with SE Reed Market Rd.	**Date:** 03/18/2025 **Job Number:** 113462	**Infiltration Test Number:** TP-03
Depth to bottom of hole: 7.0 ft	**Pit Dimensions:** 4.5 ft long, 2.2 ft wide, 7.0 ft deep	**Test Method:** Test Pit Method

Tester's Name: Nicholas Berry
Tester's Company: Shannon & Wilson, Inc.

Time	Time Interval (Minutes)	Head (feet)	Flow rate (cfs)	Remarks
15:02	0	0.46	0.00386	1447: Water introduced to test pit with garden hose. Flow rate of ~1.4 gallons per minute.
15:17	15	0.63	0.00092	
15:32	15	0.5	0.00038	
15:47	15	0.62	0.00081	
16:02	15	0.62	0.00058	
16:17	15	0.6	0.00058	
16:32	15	0.66	0.00057	
16:47	15	0.68	0.00027	
17:02	15	0.67	0.00025	

Time	Time Interval (minutes)	Measurement (feet)	Head (feet)	Drop in Water Level (feet)	Infiltration rate (inches per hour)	Remarks
17:08	--	6.58	0.67	--	--	1707: Water flow into test pit stopped.
17:13	5	6.59	0.66	0.01	1.44	
17:18	5	6.59	0.66	0.00	0.00	
17:23	5	6.59	0.66	0.00	0.00	
17:28	5	6.59	0.66	0.00	0.00	
17:33	5	6.60	0.65	0.01	1.44	
17:38	5	6.60	0.65	0.00	0.00	

Test method taken from Appendix 4C of Central Oregon Stormwater Manual

Reed Market Corridor Study
Bend, Oregon

INFILTRATION TEST RESULTS Test Pit TP-03

May 2025 113462

FIG. A41

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GROUND-PENETRATING RADAR SURVEY FOR THE REED MARKET CORRIDOR STUDY

Reed Market Road
between SE Paiute Way and SE Quill Place
Bend, Oregon

DRAFT

Prepared for:

Shannon & Wilson
3990 Collins Way Suite 100
Lake Oswego, OR 97035

Prepared by:
Plateau Geoscience Group LLC
P.O. Box 1020
Battle Ground, WA 98604

April 29, 2025

PGG LLC

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Figure 3 GPR Profiles 8 through 13

Tables

Table 1 Subsurface features and conditions, Shannon & Wilson borehole logs

Appendices

Appendix 1 GPR Survey Area Photographs

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1 INTRODUCTION

1.1 Purpose

Plateau Geoscience Group LLC (Plateau) conducted a Ground-Penetrating Radar (GPR) survey along Reed Market Road in the southeastern portion of Bend, Oregon (Figure 1 GPR Profile Locations). The purpose of the survey was to evaluate the potential for presence of anomalies that may be interpreted as voids in the Reed Market Corridor Study area that may impact future construction of a Reed Market Road crossing of the existing railroad line. The objectives for the GPR survey were to evaluate for potential anomalies that could be interpreted as voids and to evaluate the bedrock surface along the GPR survey lines.

1.2 Project Description

The GPR survey was conducted on April 2-3, 2025. The survey area included survey along the north and south sides of Reed Market Road primarily along existing sidewalks (Figure 1 GPR Profile Locations). The survey along the north side of Reed Market Road extended eastward from the southeast corner of SE Paiute Way to a point opposite the northeast corner of SE Quill Place at Reed Market Road. The survey along the south side of Reed Market Road extended westward from the northeast corner of SE Quill Place to the northeast corner of SE American Lane at Reed Market Road. The proposed survey lines provided by Shannon & Wilson (Site and Exploration Plan and Interpretive Subsurface Profile A-A', Figure 2, Reed Market Corridor Study, Bend, Oregon, April 2025) included additional lines crossing Reed Market Road on the west and east sides of the existing railroad tracks. These additional lines were to be completed, if feasible, such as during road closure for train crossings. Plateau had no advance notice of train crossings and was engaged in other sections of the GPR survey when train crossings occurred during the time of the survey and was not able to complete these additional lines.

1.3 Site Background

Shannon & Wilson provided Plateau with the logs of borings completed during an earlier phase of the corridor study (Figure 2 referenced above included a comprehensive geologic cross section along Reed Market Road, and Figure 3 Interpretive Subsurface Cross Sections, Reed Market Corridor Study, Bend, Oregon, March 2025). Three geologic units were interpreted by Shannon & Wilson and shown

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on Figures 2 and 3. A surface unit of fill varying in thickness from less than approximately 5 feet in the western and eastern portion of the survey area, to approximately 10 feet in the center portion of the survey area. Underlying the fill is a Pleistocene Sand and Gravel unit varying in thickness from less than approximately 5 feet in the western and center portions of the survey area to less than approximately 10 feet in other portions of the survey area. The third and deeper geologic unit, is the Newberry Volcanics at depths between approximately 10 to 15 feet below ground surface to approximately 5 feet below ground surface at the eastern end and in the center of the western portion of the survey area.

Features and conditions described in the Shannon & Wilson boring logs, along with surface utility features, were used as contextual information to assist in interpretation of the GPR results. The following table summarizes features and conditions of interest from the Shannon & Wilson boring logs that include small vugs of approximately 1 inch or less in size and identified in sample core, potential voids of up to approximately 1 foot size identified through drilling action, and loss of circulation that may be an indirect indication of open fractures or contacts within/between geologic units or potential vugs/voids.

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Table 2 Subsurface features and conditions, Shannon & Wilson borehole logs

Boring	Adjacent Profile	Feature/Condition	Depth (ft below ground surface)
B-02	Profile 12	Perched groundwater (top of basalt?)	5.3
B-04	Profile 11	No cuttings return	5 and deeper
		Loss of drilling fluid circulation at top of basalt	11.5
		Vugs to 1 inch	**17.8-31**
B-05	Profile 5	Loss of drilling fluid circulation	14.5-15, 19
		Vugs to 1 inch	**26-31**
B-06	Profile 11	Perched groundwater (top of basalt)	8.5-10.2
		Loss of drilling fluid circulation	17
		Vugs to 1 inch	**17-26, 26-42**
B-07	Profile 6	Loss of drilling fluid circulation	14
B-08	Profile 9	**Vugs to 0.5 inch**	**8.5-16**
B-09	Profile 6	**Loss of drilling fluid circulation and drop of drilling rods (void?)**	**16-17**
		Possible voids	**18-18.2, 19.6-19.8**
B-10	Profile 9	Perched groundwater (in top of basalt)	9.5-10.4
		Loss of drilling fluid circulation	19
B-11	Profile 7	Loss of drilling fluid circulation	17
B-12	Profile 8	Loss of drilling fluid circulation	22.5
B-13	Profile 7	Loss of drilling fluid circulation	8
Notes: Profiles 1-7 north of Reed Market Road; Profiles 8-13 south of Reed Market Road; bolded text open spaces (vugs or voids) encountered in subsurface.			

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2 GROUND-PENETRATING RADAR SURVEY

2.1 GPR Equipment

Plateau used a single-channel Mala radar with a center frequency of 250MHz to survey the lines identified by Shannon & Wilson. The 250MHz antenna has a depth of penetration of approximately 10 to 15 meters in ideal conditions without a high water table and no thick/dense clay layers. The radar unit was mounted on a tough cart and operated in a unidirectional manner. Single-channel antenna provides subsurface information in 2-Dimensions in a vertical profile and require additional and closely-spaced orthogonal survey lines to process the data into 3-Dimensional representations.

An RTK GPS system was used to georeference the beginning and end of each survey line. The base station for the RTK system was positioned in a central location away from potential obstructions or sources of interference.

2.2 Methodology

The survey area was first assessed for obstacles, significant directional changes, and any other features that would require line location adjustments. Single channel radar surveys are best operated in lines as straight as possible, without significant curves. Based on the initial assessment of the survey area, the lines along the north and south sides of Reed Market Road were broken into thirteen smaller segments or profiles to maintain straight survey lines and for ease of interpretation (Figure 1 GPR Profile Locations). In some instances, the end of one profile was offset to the north or south a few feet to maintain straight lines and to keep the survey mostly on sidewalks. The beginning and end of each profile was marked on the ground.

The survey was initiated on the north side of Reed Market Road at SE Paiute Way and proceeded east to the intersection of Reed Market Road and SE Quill Place and included Profiles 1 through 7. The survey then moved to the south side of Reed Market Road and proceeded west from SE Quill Place to the end at SE American Lane at Reed Market Road. During the survey the presence of above ground utility fixtures and previous formal utility survey markings were noted for later interpretation of GPR results.

3 DATA PROCESSING AND INTERPRETATION

3.1 Data Processing Methodology

The GPR data were processed using standard filters to remove interference and to highlight subsurface features of interest. The data was processed using GPR Slice software. Plateau used an average vertical velocity of 10 cm/ns (centimeters per nanosecond). Each profile was interpreted separately. Significant subsurface utility features, based on noted surface utilities, are marked on the profiles. Subsurface information obtained from review of the project boring logs and cross sections were used to interpret the GPR results for top of bedrock and potential anomalies.

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3.2 Limitations to Interpretation of Data

The primary limitations that may influence the scope, interpretation, and analysis of the data include presence of surface water, shallow water table, and physical obstructions. The weather was clear with no rain so there was no standing surface water. The depth to the water table in the Bend area is anticipated to be relatively deep and beyond the target survey depth. Some instances of perched groundwater were noted in the project boring logs but that did not present significant interference with the survey results and interpretation. Several physical obstructions along with curvature in the sidewalk required offsetting the end of one line segment from the beginning of the next to survey all the area and to maintain straight survey segments.

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4 SURVEY FINDINGS

Profiles 1 through 7, taken along the sidewalk on the north side of Reed Market Road, are presented in Figure 2 GPR Profiles 1 through 7. Profiles 8 through 13, taken along the sidewalk on the south side of Reed Market Road, are presented in Figure 3 GPR Profiles 8 through 13. Profiles 1 through 7 are oriented with a view to the north, and the scale along the bottom of the profile is distance in m along the profile from west to east (left to right) and the scale on the left side of the profile is depth below ground surface in m. Profiles 8 through 13 are oriented with a view to the south, and the scale along the bottom of the profile is distance in m along the profile from east to west (left to right).

Some above ground utilities and features, shallow subsurface utility-related features, and top of bedrock are marked on each of the profiles and discussed in the following sections. Top of bedrock is interpreted as the boundary between higher and lower energy responses in the profiles.

4.1 Profile 1

Profile 1 extended east from the southeast corner of SE Paiute Way at Reed Market Road. No above ground utilities were present until the approximately 75 m (meters) along the profile where the crosswalk and signal light poles for the Reed Market Road and SE American Lane intersection are located (See Photo 1, Appendix 1). The top of bedrock is identified between approximately 8 to 10 feet below ground surface.

No anomalies were identified in the bedrock of greater than approximately 1 foot in size that could be interpreted as voids. Faint reflections, such as are observed at 20 m and a depth of approximately 4 m (13 feet below ground surface), appear to be either bedding or fracture planes.

4.2 Profile 2

Profile 2 extended east from the SE American Lane and Reed Market Road intersection. A utility pole adjacent to the profile was encountered at approximately 25 m and caused interference in the radar response at depth. The top of bedrock is identified at approximately 2.7 m (9.5 feet below ground surface) at the west end of the profile to approximately 1.3 m (4.3 feet below ground surface) in the eastern portion of the profile.

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No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids. One anomaly seen as a low amplitude hyperbole centered at 17 m and a depth of 2.7 m (9.5 feet) and is labeled on Figure 2 GPR Profiles 1 through 7 as a reflection from a utility. This anomaly may warrant further investigation.

4.3 Profile 3

Profile 3 is a short segment to bridge the offset in the sidewalk before the start of Profile 4. This profile is less than 5 m long and is similar to the east end of Profile 2. No above ground utilities were observed. Depth to top of bedrock appears similar at approximately 1.3 m (4.3 feet below ground surface.

No anomalies were identified in the bedrock.

4.4 Profile 4

Profile 4 extends east along Reed Market Road and ends prior to the general railroad crossing area. This profile crosses a business driveway, marked on the profile and traverses along sidewalk to approximately 65 m where it crosses onto exposed soil (See Photo 2, Appendix 1). No above ground utilities were encountered immediately adjacent to the survey line until the east end of the profile. Some reflections in the fill and sand/gravel overburden, such as at approximately 12 m, 60-70 m, and 79 m, caused interference in the radar responses at depth. The top of bedrock was somewhat obscured in the west and east portions of the profile but identified at depths of approximately 2.5 to 3 m (8.2 to 9 feet).

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids. Faint reflections at multiple locations along the profile in the bedrock may be interpreted as either bedding or fracture planes.

4.5 Profile 5

Profile 5 extends east from the east end of Profile 4 to the west bound train crossing signal on the east side of the railroad tracks. No above ground utilities were encountered adjacent to the survey

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line and no utility locate markings were observed on the ground. The profile was taken on concrete sidewalk, concrete apron adjacent to either side of the railroad tracks, and across the tracks. Potential rebar is visible between 7.5 and 19 m at a spacing on the order of 1 foot. The concrete apron was encountered between 19 and 22.5 m, with tracks at 20 and 21 m (See Photo 3, Appendix 1). The top of bedrock appears to be at an average depth of approximately 3 m (9.8 feet). The railroad tracks cause a ringing effect downwards that interferes with the radar signal at depth partly obscuring the boundary between the fill and sand/gravel overburden and bedrock, and farther at depth in the bedrock.

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids.

4.6 Profile 6

Profile 6 extended east from the Reed Market Road west bound lane train crossing signal arm to the southwest corner of the SE 9th Street intersection with Reed Market Road (See Photo 5, Appendix 1). The only void encountered the Shannon & Wilson drilling program (and within the GPR survey area) of approximately 1 foot size was described in the log of boring B-09 located approximately 30 feet north of the east end of Profile 6. An above ground utility pole and utility box are between approximately 15 and 18 m. Joints in the sidewalk are visible between approximately 18 and 62 m along the profile. A storm drain opening is visible at about 65 m. The top of bedrock was identified at a depth of approximately 2.7 m (8.5 feet).

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids.

4.7 Profile 7

Profile 7 extends east from the southwest corner of the SE 9th Street and Reed Market Road intersection to opposite the northeast corner of SE Quill Place at its intersection with Reed Market Road (See Photo 6, Appendix 1). SE 9th Street is visible at the west end of the profile. Several above ground utilities were encountered including utility and power/light poles between approximately 33

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and 35 m, a utility vault at 95 m, a utility pole at 101 m, and a utility box at 105 m. A potential sewer line is visible at 101 m at a depth of approximately 0.9 m (3 feet). Interferences from either above ground facilities or objects in the fill and sand/gravel overburden have caused interference in the radar response at depth partially obscuring the boundary between the overburden and bedrock. The top of bedrock is estimated to be from depths of 2.3 m (7.5 feet) in the west portion of the profile to 3.3 m (11 feet) in the east portion.

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids.

4.8 Profile 8

Profile 8 extends west from the northeast corner of Se Quill Place at the intersection with Reed Market Road (See Photo 7, Appendix 1). This profile crosses SE Quill Place which is visible between 5 and 15 m. Several above ground utilities were encountered including utility poles at approximately 3, 18, and 52 m, and a utility box at 33 to 36 m. The top of basalt is estimated to be at depths of approximately 2.9 m (9.5 feet) at the east and west portions, and 3.5 m (11.5 feet) in the center portion of the profile.

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids. Two anomalies at 35 and 75 m were identified at depths of approximately 4.3 m (14 feet) that appear to be bedding or fracture planes.

4.9 Profile 9

Profile 9 extended west from opposite the southeast corner of SE 9th Street at its intersection with Reed Market Road and traversed a drainage swale. The drainage swale extends from the start of the profile to approximately 48 m and is approximately 2 feet lower than the surrounding sidewalk (See Photo 8, Appendix 1). During the survey, surface soil was wet to saturated in the bottom of the swale. Several above ground utilities were encountered including water and sewer vaults at 7.5 and 12 m, utility pole at 30 m with a sharp hyperbola at approximately 31 m and a depth of 0.8 m (2.6 feet) likely a electrical conduit based on surface utility locate markings, and a utility pole at 35.5 m.

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The top of bedrock is identified at depths of 3.5 to 3.6 m (11.5 to 12 feet) in the east half of the profile to 2.7 m (8.8 feet) in the east portion.

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids.

4.10 Profile 10

Profile 10 crosses the railroad tracks on the south side of Reed Market Road. A sewer manhole was encountered at approximately 2 m and produced a ringing effect downwards. The railroad tracks were crossed between 23.5 and 25.5 m and produced a ringing effect downwards. The top of basalt was identified between depths of approximately 2.8 and 3.1 m (9.2 and 10.2 feet).

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids.

4.11 Profile 11

Profile 11 extends west from the west side of the railroad crossing to an access road that crosses the Coid Canal (south of the survey area). Several above ground utility features were encountered along this profile (See Photo 9, Appendix 1) including a utility vault at 4 m, a utility pole at 34 m with two sharp hyperbolae at 33 and 42 m at shallow depths that are likely electric conduit based on surface utility locate markings, and utility boxes at 35 and 87 m. Small hyperbolae at approximately 84 and 86 m may be gas and/or potable water lines based on surface utility locate markings. The above ground utilities at the west end of the profile have caused interference in the radar response at depth partially obscuring the boundary between the fill and sand/gravel overburden and bedrock. The top of bedrock is identified at depths of 3.5 m (11.5 feet) in the east half of the profile to 3 m (9.8 feet) in the east portion.

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be

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interpreted as voids.

4.12 Profile 12

Profile 12 extended west from the west side of the access road crossing the Central Oregon Irrigation District (COID) Canal (south of the survey area). No above ground utilities were encountered. Strong reflectors at the west end of Profile 11 extend into the east end of Profile 12 to cause interference in the radar response at depth and obscure the boundary between the fill and sand/gravel overburden and bedrock.

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids.

4.13 Profile 13

Profile 13 covers the last 17 m of the survey area to the northeast corner of SE American Lane at its intersection with Reed Market Road (See Photo 10, Appendix 1). Several above ground utilities were encountered in this short distance including a silver utility box at 2 m, 2 vaults (orange utility locate markings indicate communications) at 3 and 5 m, utility pole at 10 m, utility box at 13 m, and crosswalk signal and street traffic lights at 14 m. A sharp hyperbola at a shallow depth at 7 m is a likely electric conduit based on surface utility locate markings. The top of basalt is estimated at approximately 2.7 m depth (8.8 feet).

No anomalies were identified in the bedrock greater than approximately 1 foot in size that could be interpreted as voids.

5 Conclusions

The objectives of the GPR survey for the Reed Market Corridor Study were to evaluate potential presence of subsurface anomalies that could be interpreted as voids, and to identify depth to bedrock. GPR survey results for these two objectives are discussed in the following sections.

5.1 Anomalies as Potential Voids

The GPR survey evaluated potential anomalies in the Newberry Volcanics bedrock beneath the

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survey area. No anomalies at or greater than approximately 1 foot in size were identified in bedrock that could be interpreted as voids. Two anomalies were identified in Profiles 2 and 8, potentially related to utilities, may warrant further investigation. Some faint anomalies were visible in the bedrock but appear to be bedding planes or fractures.

5.2 Top of Bedrock

The GPR survey profiles were evaluated for indications of depth to bedrock. Geologic units overlying the volcanic bedrock consist of unsaturated and relatively unconsolidated sediments (fill and Pleistocene Sand and Gravel). The relative dielectric permittivity of subsurface materials will determine how the GPR electromagnetic energy will behave in the subsurface including velocity of travel, attenuation, reflection, and refraction. The electromagnetic energy transmitted by the GPR antenna appears to be significantly attenuated within the fill and sand/gravel overburden. The depth to bedrock was identified as the boundary between higher energy and lower energy responses in the GPR profiles and ranged from approximately 4 feet below ground surface in Profile 2, to approximately 11.5 feet below ground surface in Profile 8. In some profiles, such as Profiles 7, 12, and 13, interference from above ground electrical utility features obscured the GPR responses at depth and the top of bedrock could not be estimated.

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6 LIMITATIONS

This field report has been prepared for the Client and Consultant does not accept liability or responsibility for unauthorized editing, detachment, partial use, separation, or reproduction without color if used to depict significant information, by third parties and such use shall be at the users' sole risk. Records, documentation, and personal communication have been relied upon in good faith; however, no responsibility is accepted for error or omissions by others or of previous work.
Services were performed in accordance with generally accepted professional practices in the same or similar localities, related to the nature of the work accomplished, at the time services were rendered. Conclusions and findings apply only to present conditions, and opinions expressed are subject to revision when additional or new information is presented and reviewed.
It is possible that the GPR investigations failed to reveal the presence of all subsurface objects or conditions in the area and to the capable depths investigated or where subsurface objects were expected to occur. Client understands that failure to locate all objects may be the result of several factors including interference from features of the site that could not, or would not, be removed, from other features adjacent to or above the site, or from other subsurface conditions such as a high groundwater table or similarity of dielectric properties of subsurface materials that are not under the control of Consultant. Consultant is not responsible for failing to locate all subsurface objects which were not discovered at the time of the investigation or this report or in the future. This report should not be construed as representing a valuation for, or stability, or constructability of the site.
In the event of changes to the site or features on, adjacent or above the site, the conclusions and recommendations made herein shall be invalid until Consultant is given the opportunity to review and modify this report in writing. Portions of an Agreement to perform professional services for Client may or may not be Disclosed in this report.

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7 REFERENCES

Arcone, S., Campbell, S., and Pfeffer, T., 2014, GPR Profiles of Glacial Till and its Transition to Bedrock: Interpretation of Water Content, Depth and Signal Loss from Diffractions, Journal of

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Kramer, N., 2011, An investigation into beaver-induced Holocene sedimentation using ground penetrating radar and seismic refraction: Beaver Meadows, Rocky Mountain National Park, Colorado, Thesis: Department of Geosciences, Colorado State University, Fort Collins, Colorado, Dummer 2011.

Nath, R.R., Kumar, G., Surma, M.L., Gupta, S.C., 2018, Estimation of bedrock depth for a part of Garhwal Himalayas using two different geophysical techniques, Geoscience Letters (2018) 5:9, Springer Open.



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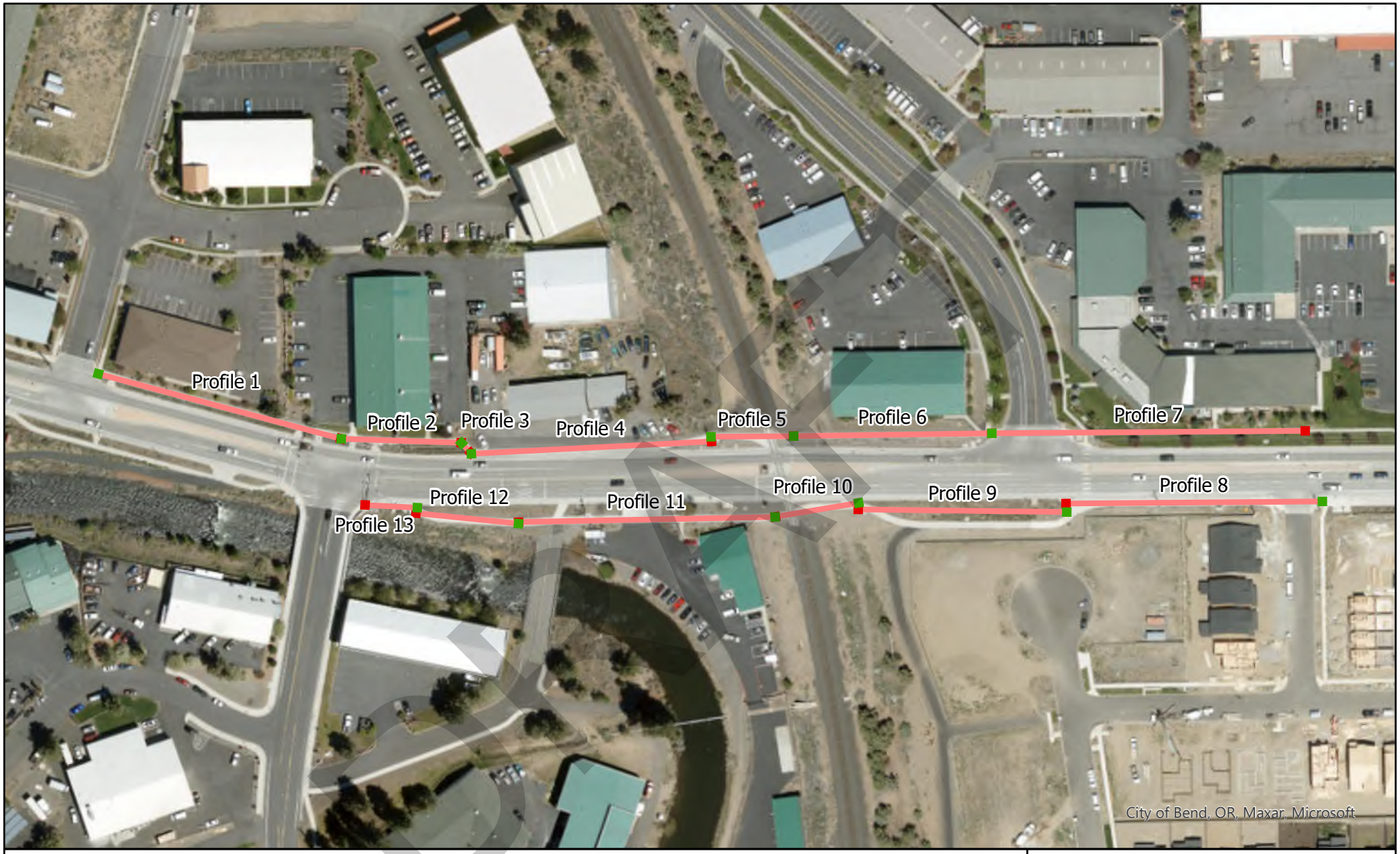

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Legend

Profile

Green: profile start
Red: profile end

0 100 200 300 Feet

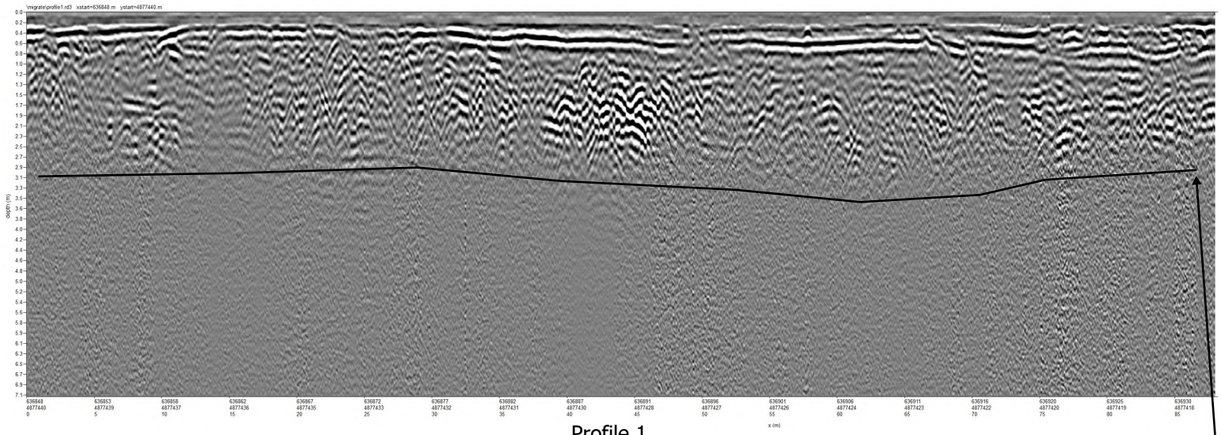
N
W E
S

Figure 1

Reed Market GPR Profile Locations

Bend, OR

PGG April 2025



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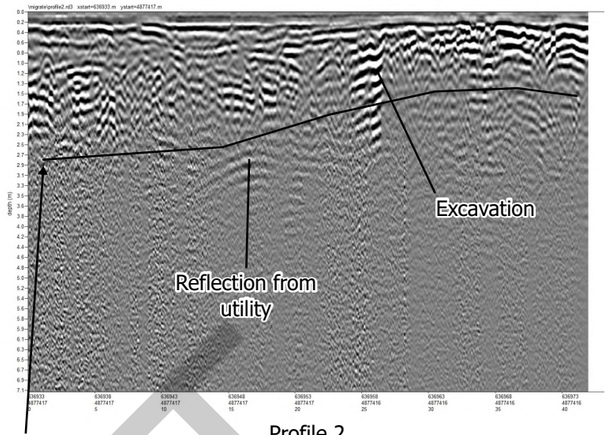

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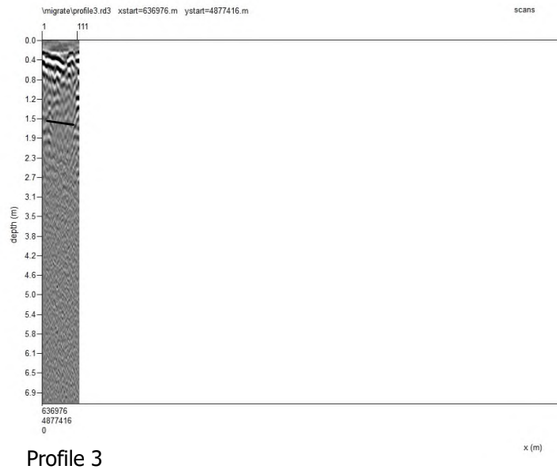

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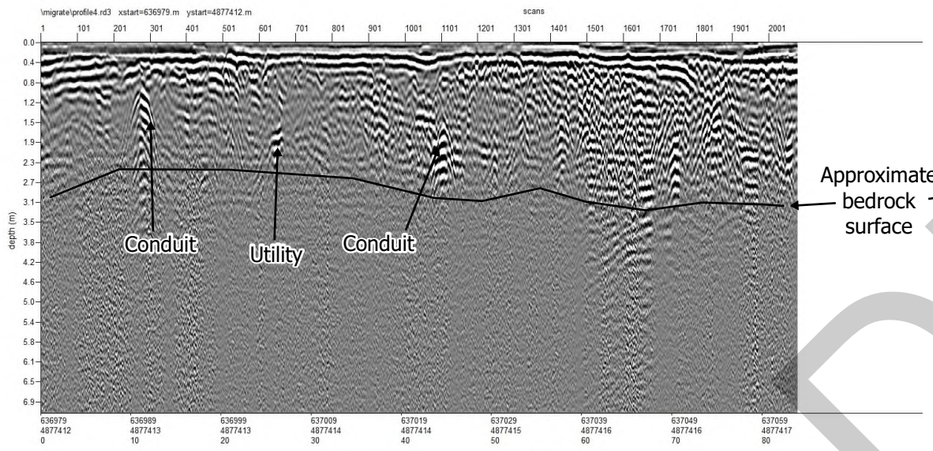

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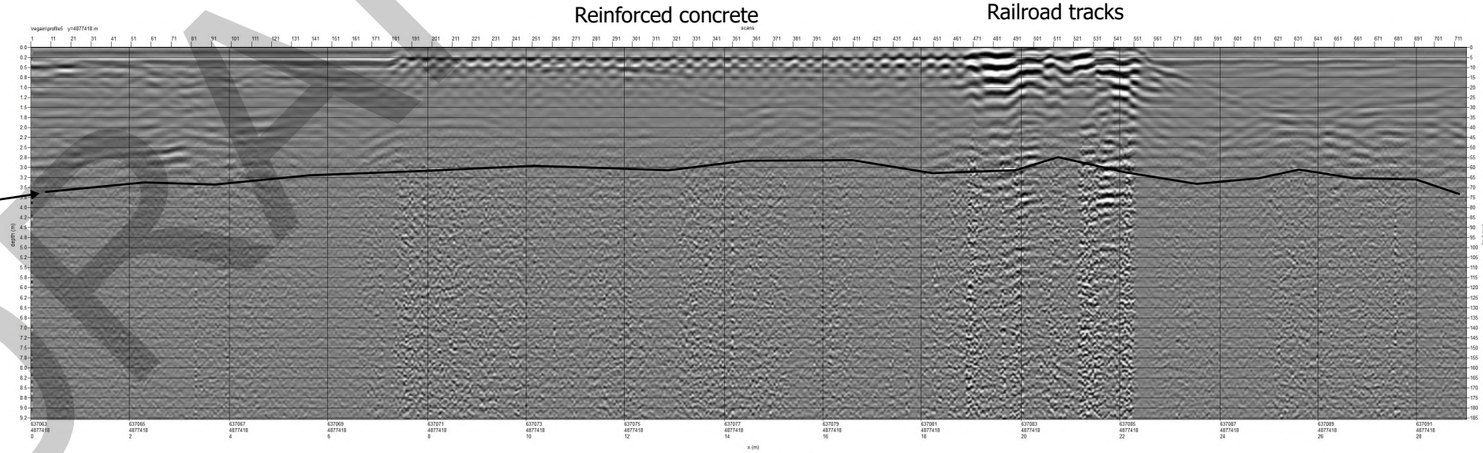

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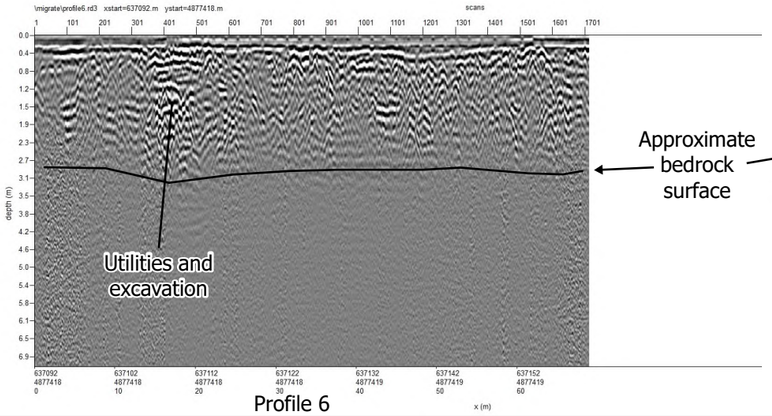
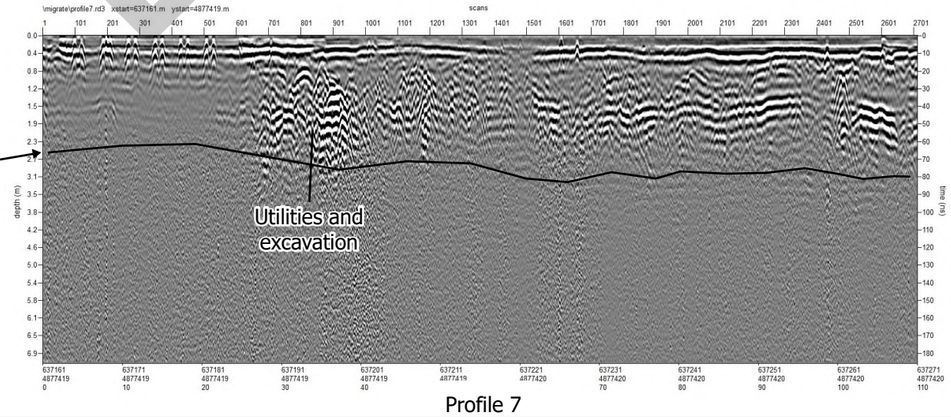


Profile 6



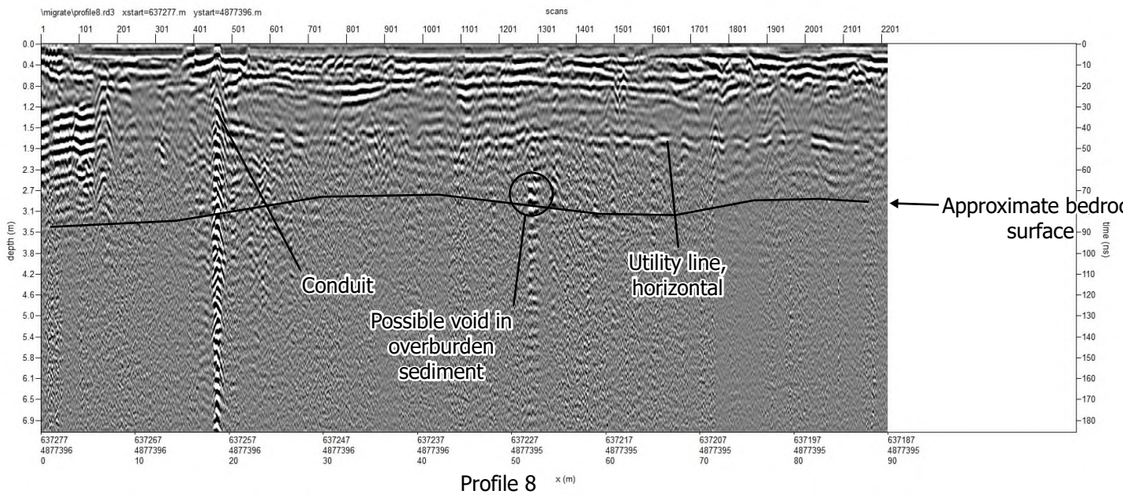
Profile 7

Figure 2

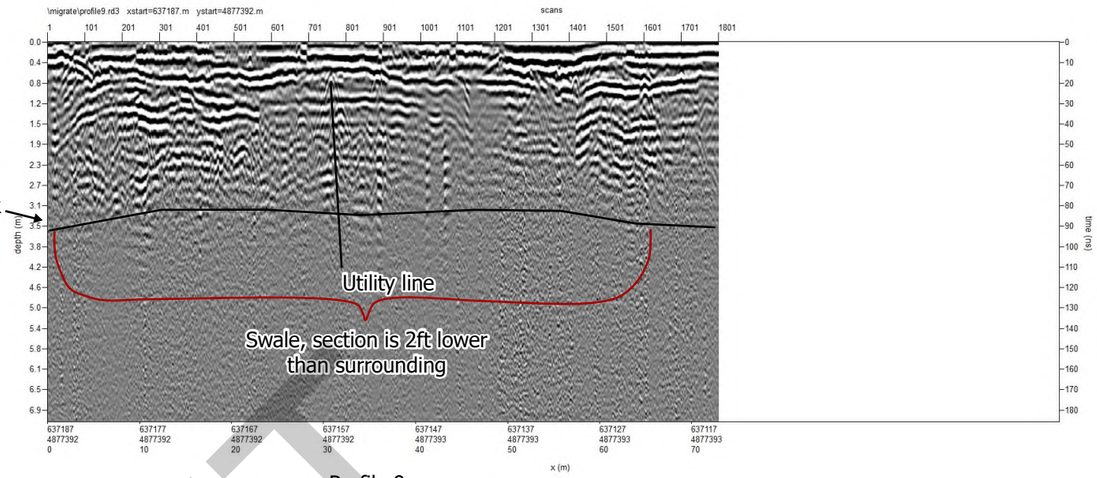
GPR Profiles 1 through 7
Reed Market Rd. GPR Survey

Bend, OR

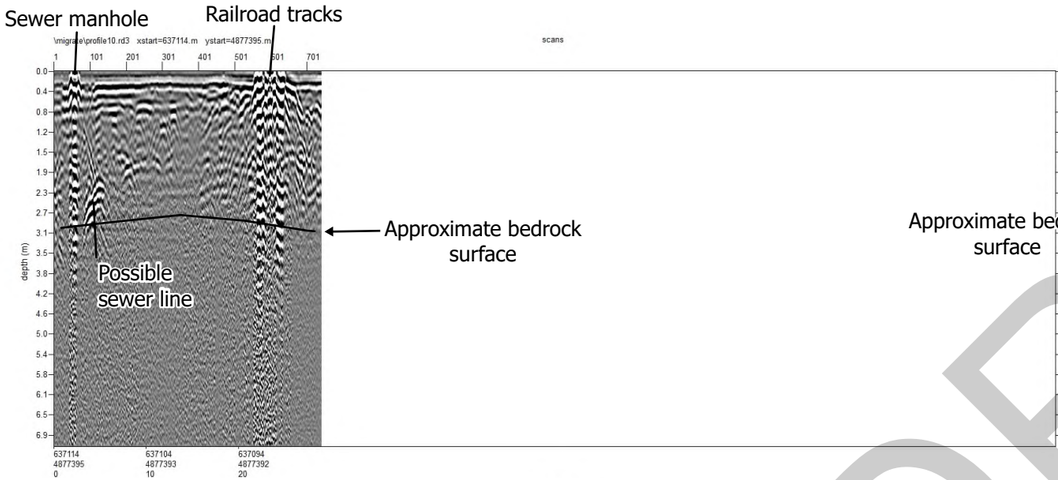
PGG LLC April 2025



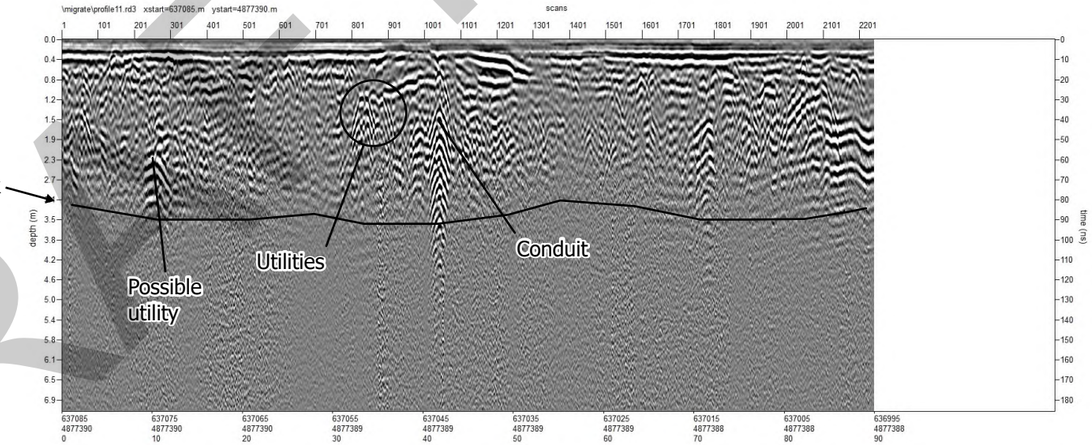
Profile 8



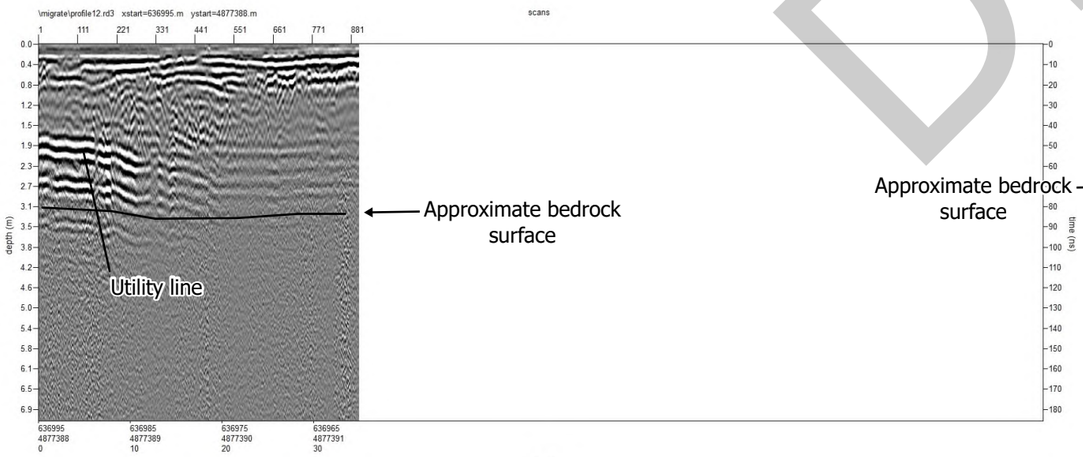
Profile 9



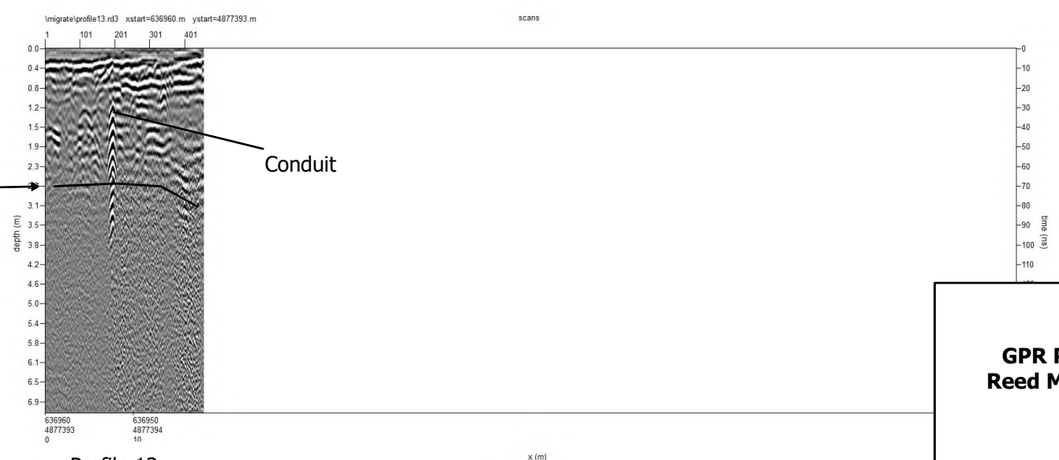
Profile 10



Profile 11



Profile 12



Profile 13

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Figure 3

GPR Profiles 8 through 13
Reed Market Rd. GPR Survey

Bend, OR

PGG April 2025

Appendix 1

GPR Survey Photographs

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Photo 1 View east from start of Profile 1. Note signal lights for SE American Lane Intersection in upper left photo.



Photo 2 View east from start of Profile 4.



Photo 3 View west from end of Profile 5. Railroad crossing in middle photo and start of profile in upper center photo.



Photo 4 View north of ravine along western side of railroad tracks in western portion of Profile 5. Note boulders in fill in lower right photo.

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Photo 5 View west of end of Profile 6 in center photo at SE 9th Street intersection with Reed Market Road.



Photo 6 View west from end of Profile 7.



Photo 7 View east from end of Profile 8.



Photo 8 View west from start of Profile 9 in drainage swale. Note utility boxes with potable water left of center photo and sewer right of center photo. Surface soil in swale is saturated.

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Photo 9 View east from end of Profile 11. Note utility markings for potable water (blue) and gas (yellow).

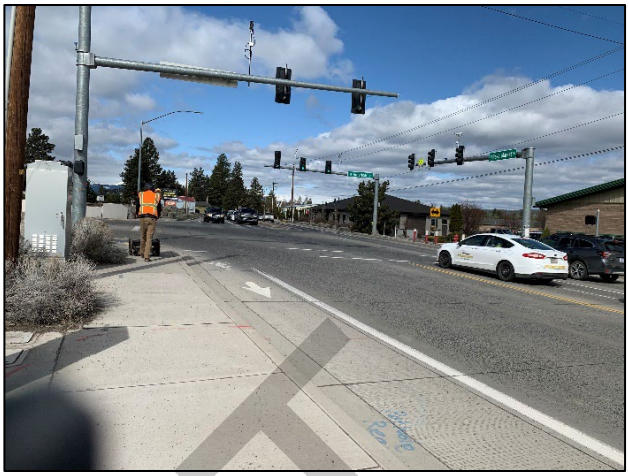

Photo 10 View west from start of Profile 13. Signals for SE American Lane intersection with Reed Market Road.

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Shannon & Wilson, Inc. (S&W), uses a soil classification system modified from the Unified Soil Classification System (USCS). Elements of the USCS and other definitions are provided on this and the following page. Soil descriptions are based on visual-manual procedures (ASTM D 2488-93) unless otherwise noted.

S&W CLASSIFICATION OF SOIL CONSTITUENTS

Major constituents compose more than 50 percent, by weight, of the soil. Major consituents are capitalized (i.e., SAND).

Modifying (secondary) constituents precede the major constituents (i.e., silty SAND) and compose 15 to 45 percent, by weight, for fine-grained soils and 30 to 45 percent, by weight, for coarse-grained soils.

Minor constituents follow major and modifying constituents (i.e., silty SAND with gravel) and compose 10 percent, by weight, for fine-grained soils and 10 to 25 percent, by weight for coarse-grained soils.

Trace constituents follow all other constituents and are labeled "trace" (i.e., silty SAND with trace gravel). Trace constituents comprise 5 percent, by weight of coarse-grained soils and 5 to 10 percent, by weight of fine-grained soils.

Percentages are based on estimating amounts to the nearest 5 percent.

MOISTURE CONTENT DEFINITIONS

Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, from below water table

ABBREVIATIONS

ATD	At Time of Drilling
Elev.	Elevation
ft	feet
FeO	Iron Oxide
MgO	Magnesium Oxide
HSA	Hollow Stem Auger
ID	Inside Diameter
in	inches
lbs	pounds
Mon.	Monument cover
N	Blows for last two 6-inch increments
NA	Not applicable or not available
NP	Nonplastic
OD	Outside diameter
OVA	Organic vapor analyzer
PID	Photo-ionization detector
ppm	parts per million
PVC	Polyvinyl Chloride
SS	Split spoon sampler
SPT	Standard penetration test
USC	Unified soil classification
q_u	Unconfined Compressive Strength

GRAIN SIZE DEFINITION

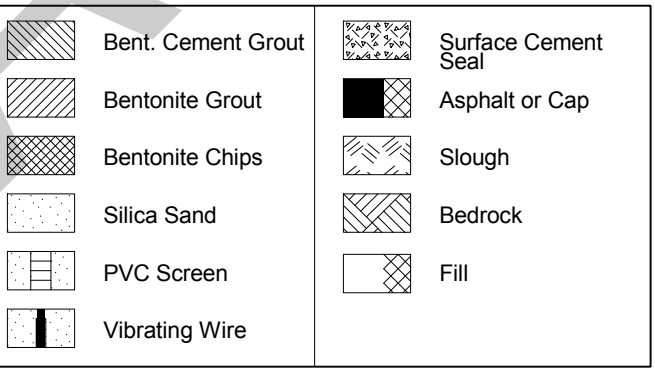
DESCRIPTION	SIEVE NUMBER AND/OR SIZE
FINES	< #200 (0.08 mm)
SAND*	
- Fine	#200 to #40 (0.08 to 0.4 mm)
- Medium	#40 to #10 (0.4 to 2 mm)
- Coarse	#10 to #4 (2 to 5 mm)
GRAVEL*	
- Fine	#4 to 3/4 inch (5 to 19 mm)
- Coarse	3/4 to 3 inches (19 to 76 mm)
COBBLES	3 to 12 inches (76 to 305 mm)
BOULDERS	> 12 inches (305 mm)

* Unless otherwise noted, sand and gravel, when present, range from fine to coarse in grain size.

RELATIVE DENSITY / CONSISTENCY

COARSE-GRAINED SOILS		FINE-GRAINED SOILS	
N, SPT, BLOWS/FT.	RELATIVE DENSITY	N, SPT, BLOWS/FT.	RELATIVE CONSISTENCY
0 - 4	Very loose	Under 2	Very soft
4 - 10	Loose	2 - 4	Soft
10 - 30	Medium dense	4 - 8	Medium stiff
30 - 50	Dense	8 - 15	Stiff
Over 50	Very dense	15 - 30	Very stiff
		Over 30	Hard

WELL AND OTHER SYMBOLS



PLASTICITY

PLASTICITY ADJECTIVE	PLASTICTY INDEX (PI) RANGE
Nonplastic	0 - 4
Low Plasticity	>4 - 10
Medium Plasticity	>10 - 20
High Plasticity	>20 - 40
Very High Plasticity	>40

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Bend Transportation G.O. Bond Program
Bend, Oregon

SOIL CLASSIFICATION AND LOG KEY

July 2012 24-1-03675-004

POST_07_BORING_CLASS1 24-1-03675.GPJ SWNEW.GDT 7/2/12

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)
(From ASTM D 2488)

MAJOR DIVISIONS			GROUP/GRAPHIC SYMBOL		TYPICAL DESCRIPTION
COARSE-GRAINED SOIL *(more than 50% retained on No. 200 sieve)*	Gravel *(more than 50% of coarse fraction retained on No. 4 sieve)*	Clean Gravel *(less than 5% fines)*	GW		Well-graded gravel, gravel, gravel/sand mixtures, little or no fines.
			GP		Poorly graded gravel, gravel-sand mixtures, little or no fines
		Gravel with Fines *(more than 10% fines)*	GM		Silty gravel, gravel-sand-silt mixtures
			GC		Clayey gravel, gravel-sand-clay mixtures
	Sand *(50% or more of coarse fraction passes the No. 4 sieve)*	Clean Sand *(less than 5% fines)*	SW		Well-graded sand, gravelly sand, little or no fines
			SP		Poorly graded sand, gravelly sand, little or no fines
		Sand with Fines *(more than 10% fines)*	SM		Silty sand, sand-silt mixtures
			SC		Clayey sand, sand-clay mixtures
FINE-GRAINED SOIL *(50% or more passes the No. 200 sieve)*	Silt and Clay *(liquid limit less than 50)*	Inorganic	ML		Inorganic silt of low to medium plasticity, rock flour, sandy silt, gravelly silt, or clayey silt with slight plasticity
			CL		Inorganic clay of low to medium plasticity, gravelly clay, sandy clay, silty clay
		Organic	OL		Organic silt and organic silty clay of low plasticity
	Silt and Clay *(liquid limit 50 or more)*	Inorganic	MH		Inorganic silt, micaceous or diatomaceous fine sand or silty soils, elastic silt
			CH		Inorganic clay or medium to high plasticity
		Organic	OH		Organic clay of medium to high plasticity, organic silt
HIGHLY-ORGANIC SOIL	Primarily organic matter, dark in color, and organic odor		PT		Peat, humus, swamp soils with high organic content (see ASTM D 4427)

NOTE: No. 4 size = 5 mm; No. 200 size = 0.075 mm

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NOTES

1. Solid lines on the logs indicate contacts between major units. Dashed lines indicate contacts between different material types within the same unit. Dotted lines indicate subtle or uncertain contacts within a unit. The contacts shown are an interpretation of the condition encountered and actual contacts may be more gradational than shown.
2. Dual symbols (symbols separated by a hyphen, i.e., SP-SM, SAND with silt) are used for coarse-grained soils with 10 percent fines or when the liquid limit and plasticity index values plot in the CL-ML area of the plasticity chart.
3. Borderline symbols (symbols separated by a slash, i.e., CL/ML and GW/SW) indicate that the soil may fall into one of two possible basic groups.
4. The soil graphics above represent the various USCS designations (i.e., GP, SM, etc.) and may be augmented with additional symbology to represent differences within USCS designations. Sandy SILT (ML), for example, may be accompanied by the ML soil graphic with sand grains added.

Bend Transportation G.O. Bond Program
Bend, Oregon

SOIL CLASSIFICATION AND LOG KEY

July 2012 24-1-03675-004

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

FIG. A1
Sheet 2 of 2

POST_07_BORING_CLASS2 24-1-03675.GPJ SWNEW.GDT 7/2/12

Total Depth:	40 ft.	Northing:	378,021 ft.	Drilling Method:	Mud Rotary & Rock Core	Hole Diam.:	~
Top Elevation:	3730.3 ft.	Easting:	3,297,983 ft.	Drilling Company:	Western States	Rod Type:	NWJ
Vert. Datum:	NGVD29	Station:		Drill Rig Equipment:	CME 75	Hammer Type:	Automatic
Horiz. Datum:	Central OR	Offset:		Other Comments:			

SOIL DESCRIPTION

Refer to the report text for a proper understanding of the subsurface materials and drilling methods. The stratification lines indicated below represent the approximate boundaries between soil types, and the transitions may be gradual.

Loose brown silty SAND, trace gravel; moist; fine to medium sand. (SM)

PLEISTOCENE SAND AND GRAVEL

Scattered cobbles inferred from drill action from 5.0 feet to 10.0 feet.

3723.3
7.0

Medium dense brown silty SAND, trace gravel; moist; occasional to scattered cobbles. (SM)

3719.1
11.2

BASALT: Moderate to medium high strength (R3-R4), dark gray, fine-grained; slightly to moderately vesicular; rough, close to medium spaced, undulating, low angle to vertical (10°-90°) joints with iron oxidation, orange-brown staining and occasional orange-brown to brown silt infilling (1.0-2.0 mm thick), slightly weathered.

Unconfined Compressive Strength from 14-15 feet = 5,694 psi

BASALT OF NEWBERRY VOLCANO

Unconfined Compressive Strength from 24-25.5 feet = 10,103psi

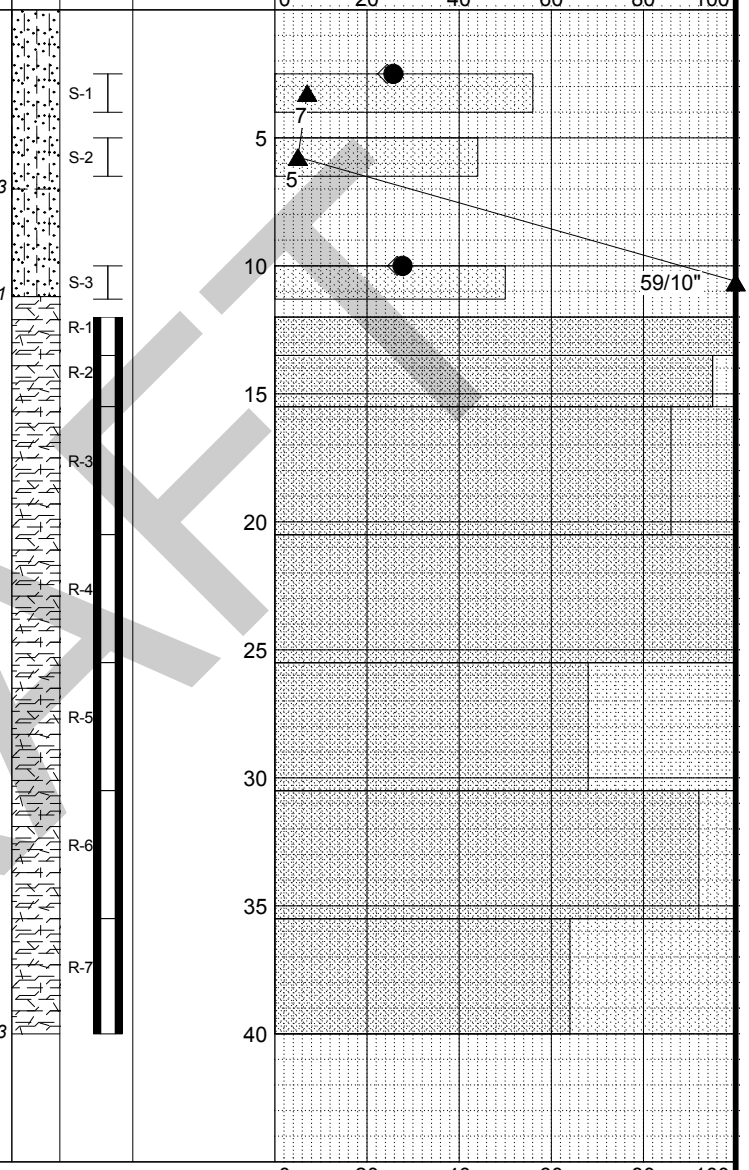
Slightly vesicular from 16.5 to 27.3 feet.
Moderate to highly vesicular from 27.3 to 29.5 feet.
Moderately vesicular from 29.5 to 34.5 feet.
Slightly vesicular from 34.5 to 37.5 feet.
Driller notes possible 2-inch void at ~32.0 feet.

Moderately to highly vesicular from 37.5 to 40 feet.

3690.3
40.0

Completed - January 23, 2012

Elev. Depth (ft.) | Symbol | Samples | Ground Water | Depth, ft.



PENETRATION RESISTANCE, N (blows/ft.)

▲ Hammer Wt. & Drop: *140 lbs / 30 inches*

0 20 40 60 80 100

LEGEND

* Sample Not Recovered
Standard Penetration Test
Rock Core

Recovery (%) RQD (%)
◇ % Fines (<0.075mm)
● % Water Content
Plastic Limit ——— Liquid Limit

NOTES

1. Refer to KEY for explanation of symbols, codes, abbreviations and definitions.
2. Groundwater level, if indicated above, is for the date specified and may vary.
3. USCS designation is based on visual-manual classification and selected lab testing.
4. The hole location and elevation should be considered approximate.

Bend Transportation G.O. Bond Program
Bend, Oregon

LOG OF BORING B-7

July 2012 24-1-03675-004

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Geotechnical and Environmental Consultants

FIG. A9

REV 3

DRAFT

MASTER_LOG_E 24-1-03675.GPJ SHAN_WIL.GDT 7/2/12 Log: WDN Rev: CKS Typ: MAS

Total Depth:	40 ft.	Northing:	377,932 ft.	Drilling Method:	Mud Rotary & Rock Core	Hole Diam.:	5 in.
Top Elevation:	3730.5 ft.	Easting:	329,796 ft.	Drilling Company:	Western States	Rod Type:	NWJ
Vert. Datum:	NGVD29	Station:		Drill Rig Equipment:	CME 75	Hammer Type:	Automatic
Horiz. Datum:	Central OR	Offset:		Other Comments:			

SOIL DESCRIPTION

Refer to the report text for a proper understanding of the subsurface materials and drilling methods. The stratification lines indicated below represent the approximate boundaries between soil types, and the transitions may be gradual.

Topsoil

FILL

Medium dense brown silty SAND, trace gravel; dry to moist. (SM)

PLEISTOCENE SAND AND GRAVEL

BASALT: Moderate to medium high strength (R3-R4), dark gray, fine-grained; slightly to moderately vesicular; rough, close to medium spaced, undulating low angle to vertical (0°-90°) joints with iron oxidation, orange-brown staining and occasional orange-brown silt infilling (< 1.0mm thick); slightly weathered.

BASALT OF NEWBERRY VOLCANO

1-inch-thick silt seam at 10.5 feet.

Moderately vesicular from 15.5 to 21.0 feet.

Driller notes ~6-inch-thick void at 17.0 feet.

Moderately vesicular from 24.0 to 29.0 feet.

Slightly to moderately vesicular from 29.0 to 33.0 feet.

Moderately vesicular from 33.0 to 35.0 feet.

Slightly vesicular from 35.0 to 36.5 feet.

Moderately vesicular from 36.5 to 40.0 feet.

Completed - January 23, 2012

Elev. Depth (ft.): 3730.0 / 0.5; 3726.8 / 3.7; 3690.5 / 40.0

Symbol

Samples: S-1; R1; R2; R3; R4; R5; R6; R7; R8

Ground Water

Depth, ft.: 0, 5, 10, 15, 20, 25, 30, 35, 40

PENETRATION RESISTANCE, N (blows/ft.)

▲ Hammer Wt. & Drop: *140 lbs / 30 inches*

0 20 40 60 80 100

57/10"

0 20 40 60 80 100

Recovery (%) RQD (%)

● % Water Content

Plastic Limit ⊢—⊣ Liquid Limit

LEGEND

* Sample Not Recovered

Standard Penetration Test

Rock Core

NOTES

1. Refer to KEY for explanation of symbols, codes, abbreviations and definitions.
2. Groundwater level, if indicated above, is for the date specified and may vary.
3. USCS designation is based on visual-manual classification and selected lab testing.
4. The hole location and elevation should be considered approximate.

Bend Transportation G.O. Bond Program
Bend, Oregon

LOG OF BORING B-8

July 2012 24-1-03675-004

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FIG. A10

REV 3

DRAFT

MASTER_LOG_E 24-1-03675.GPJ SHAN_WIL.GDT 7/2/12 Log: WDN Rev: CKS Typ: MAS

I:\WIP\Projects\24-1 Portland\3600\3675 Bend Transportation GO Bond Program\Deliverables\GDR\Final GDR\Appendix A - Logs and Core Photos 6/21/2012 Login:ael



Photo 1: Boring B-7, Box 1



Photo 2: Boring B-7, Box 2

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Bend Transportation G.O. Bond Program
Bend, Oregon

BORING B-7
CORE PHOTOS

July 2012 24-1-03675-004

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FIG. A39
Sheet 1 of 2

I:\WIP\Projects\24-1 Portland\3600\3675 Bend Transportation GO Bond Program\Deliverables\GDR\Final GDR\Appendix A - Logs and Core Photos 6/21/2012 Login:ael



Photo 3: Boring B-7, Box 3



Photo 4: Boring B-7, Box 4

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Bend Transportation G.O. Bond Program
Bend, Oregon

BORING B-7
CORE PHOTOS

July 2012 24-1-03675-004

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FIG. A39
Sheet 2 of 2

I:\WIP\Projects\24-1 Portland\3600\3675 Bend Transportation GO Bond Program\Deliverables\GDR\Final GDR\Appendix A - Logs and Core Photos 6/21/2012 Login:ael



Photo 5: Boring B-8, Box 1

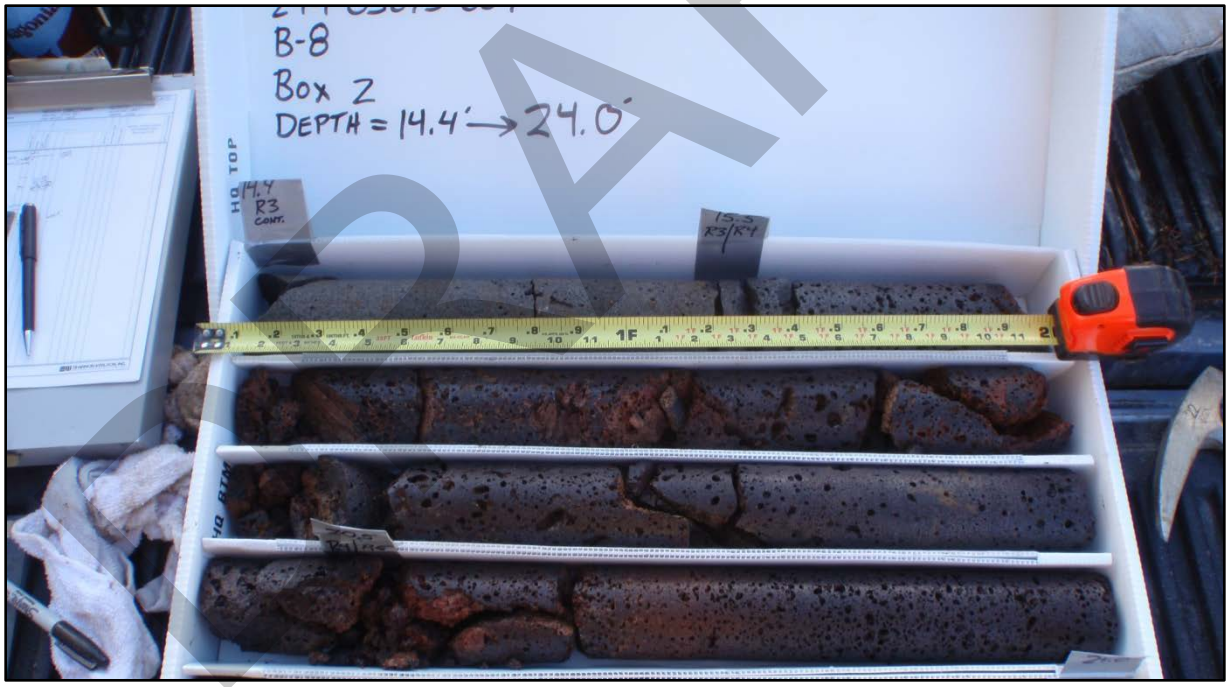

Photo 6: Boring B-8, Box 2

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Bend Transportation G.O. Bond Program
Bend, Oregon

BORING B-8
CORE PHOTOS

July 2012 24-1-03675-004

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FIG. A40
Sheet 1 of 2

I:\WIP\Projects\24-1 Portland\3600\3675 Bend Transportation GO Bond Program\Deliverables\GDR\Final GDR\Appendix A - Logs and Core Photos 6/21/2012 Login:ael

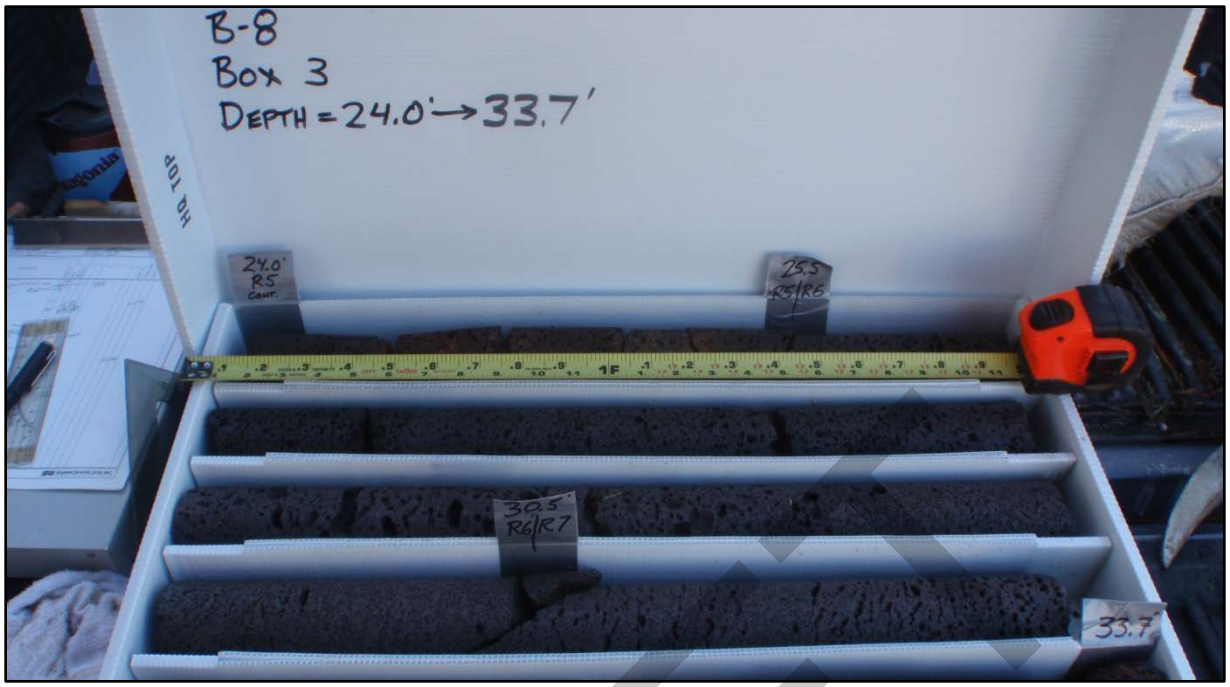

Photo 7: Boring B-8, Box 3



Photo 8: Boring B-8, Box 4

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Bend Transportation G.O. Bond Program
Bend, Oregon

BORING B-8
CORE PHOTOS

July 2012 24-1-03675-004

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FIG. A40
Sheet 2 of 2

Shannon & Wilson, Inc.
3990 Collins Way, Suite 100
Lake Oswego, Oregon 97035
Attention: Allison Pyrch, PE, GE

February 12, 2012
Siemens Project No. 121011
S&W Project Number: 24-1-03675

Project: Bend GO Bond: American Lane Bridge
Bend, Oregon

Subject: Geophysical Reconnaissance

Dear Allison,

This letter presents the results and interpretation of the geophysical reconnaissance and describes the methods employed. The work explores the foundation conditions at each abutment in terms of contrasts in electrical resistivity. The fieldwork for this reconnaissance was completed on January 16, 2012 in accordance with our proposal submitted on January 5, 2012 accepted by the client through oral agreement. A draft of this letter was submitted on January 19, 2012 for review and comment and to provide preliminary data prior to drilling. At the time of the field work, the weather was cold with occasional light snow.

Purpose

The geophysical images are presented to improve the definition of voided basalt identified through previous site exploration. Electrical resistivity tomography was selected as an effective method to image the foundation zone and assist in identifying new drill exploration sites to better define the condition of the basalt within the foundation influence zone.



Electrical Resistivity Tomography (ERT): How it works

Two-dimensional (2D) electrical resistivity tomography is a geophysical method to evaluate the subsurface electrical resistivity

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distribution by taking measurements along a survey line at the surface. These measurements are then interpreted to provide a description of the electrical properties of the subsurface which are in turn related to the likely distribution of geologic or cultural features known to offer similar electrical properties. A measurement in an electrical survey involves injecting DC current into the ground through two current-carrying electrodes and measuring the resulting voltage difference at two potential electrodes. The apparent resistivity is calculated using the value of the injected current, the voltage measured, and a geometric factor related to the arrangement of the four electrodes.

The investigation depth of electrical resistivity is related to the spacing between the electrodes that inject electrical current. Therefore, sampling at different depths can be done by changing the spacing between the electrodes. Measurements are repeated along a survey line with various combinations of electrodes and spacing to produce an apparent resistivity cross-section (tomogram). In this case, we used a Dipole-Dipole array with 5 foot spacing between electrode stakes. Line length included 56 electrodes giving rise to depth of investigation approaching 40 feet.



Since consecutively deeper readings are influenced by overlying strata, apparent resistivity data are inverted using a software application to generate a model of the subsurface structure and stratigraphy based on its electrical properties. Many geological/environmental or cultural factors affect or control the resistivity of the subsurface such as composition of the subsurface materials, amount of water in the subsurface and ionic concentration of the pore fluid. The ERT images are presented as an attachment to this letter numbered ERT #1 and ERT #2 along with a Site Plan illustrating the locations of each survey.

Survey Line Locations, Data Acquisition and Gear

Geophysical surveys were performed along traverses oriented parallel the canal through the proposed foundation zone. The elevations along the route were judged to be relatively flat and the tomograms assume a consistent surface elevation of zero (0) feet along each line. A four foot wood stake was left at the beginning of each line for reference in the field.

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ERT data were recorded using a Super Sting R-8 manufactured by Advanced Geosciences, Inc. Austin, Texas. Siemens & Associates chose the Dipole-Dipole array for each survey; over 2000 data points were measured along each line to produce the tomograms. ERT processing was done using the latest version of RES2DINV software by Geotomo Software, Malaysia.

Discussion of Results

Electrical Resistivity Tomography: ERT #1 & #2

Electrical contrasts through the study area are complex and complicated by an electrically conductive waterline that follows the proposed new bridge alignment. Although the ERT surveys were oriented perpendicular to the waterline, the influence of the pipe and trench backfill is profound. The pipe promotes a low resistivity zone and discontinuity in the rock profile.

Siemens & Associates present two tomograms for each line: the first tomogram is plotted with the resistivity on a logarithmic scale which has the benefit of illustrating a wide range and therefore is useful in distinguishing boundaries such as soil and rock. The second presentation plots the resistivity on a linear scale which is better at isolating either high or low resistivity anomaly. In this case, Siemens & Associates scaled the linear tomogram to highlight high electrical anomaly which are indicative of air-filled structure within the basalt.



The data suggest significant void potential at specific locations along each ERT survey. These are highlighted in the linear plots and identified in plan view on the Site Plan. These locations represent useful targets for the planned drilling and sampling exploration.

Summary of Conditions Encountered

Each tomogram is annotated with interpretation notes prepared by Siemens & Associates. The logarithmic plots clearly define the thickness of the soil overlying rock as well as variation within the soil horizon. The lowest resistivity (blue shades) are interpreted to define reasonably homogenous sand with silt. Soil zones that offer greater discontinuity in electrical contrast are likely to be imaged that way

DRAFT

due to more complicated, less uniform soil texture which probably include significant quantities of cobbles and boulders.

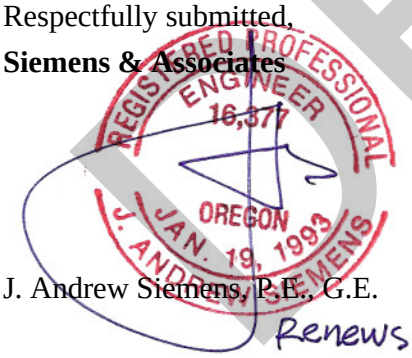
The rock (basalt) is clearly defined by contrasting electrical properties. Typically, basalt in this area of Central Oregon offers an apparent resistivity that varies from around 1000 Ohm-m up to about 10,000 Ohm-m. As air voids are induced into the rock either due to un-filled fracture and joints, vesicles and lava tubes, the apparent resistivity increases. In this case, apparent resistivity approaching 100,000 ohm-m is indicated by the inverted sections. These high resistivity anomalies are typically related to basalt which hosts significant voided structure filled with air; the anomalies are large providing evidence of equally large zones of voided rock. Apparent resistivity pseudosections (not shown) do not host exceptionally high resistivity contrast suggesting that the high resistivity illustrated within the inverted sections is likely a result of small air-filled voids such as vuggy or vesicular structure rather than large, air-filed voids associated with a lava tube cave.

Limitations

This report presents our professional opinion based upon geophysical measurement and interpretation presented as an endeavor to conform to the standard of practice currently employed by area geoprofessionals conducting similar work in Bend, Oregon area at this time – we make no other warranty express or implied.

We appreciate the opportunity to conduct this exploration and look forward to discussing the results with you.

Respectfully submitted,
Siemens & Associates



J. Andrew Siemens, P.E., G.E.

Addressee: 1 electronic (pdf)
Enclosures: Site Plan (Figure 100), ERT 1, 1a and ERT 2, 2a

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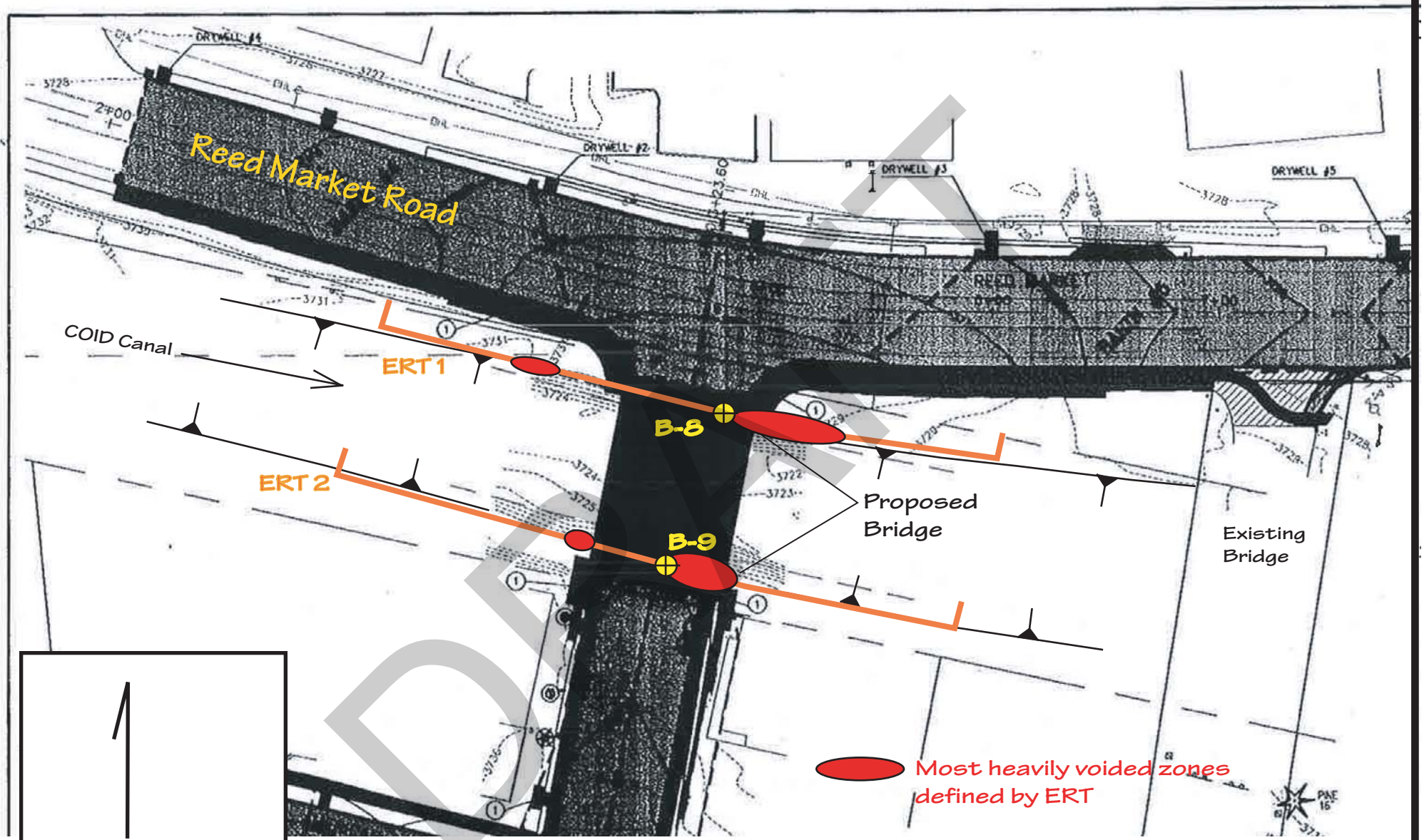

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Geophysical Site Plan

Figure #100

American Lane Bridge Replacement
City of Bend, Oregon

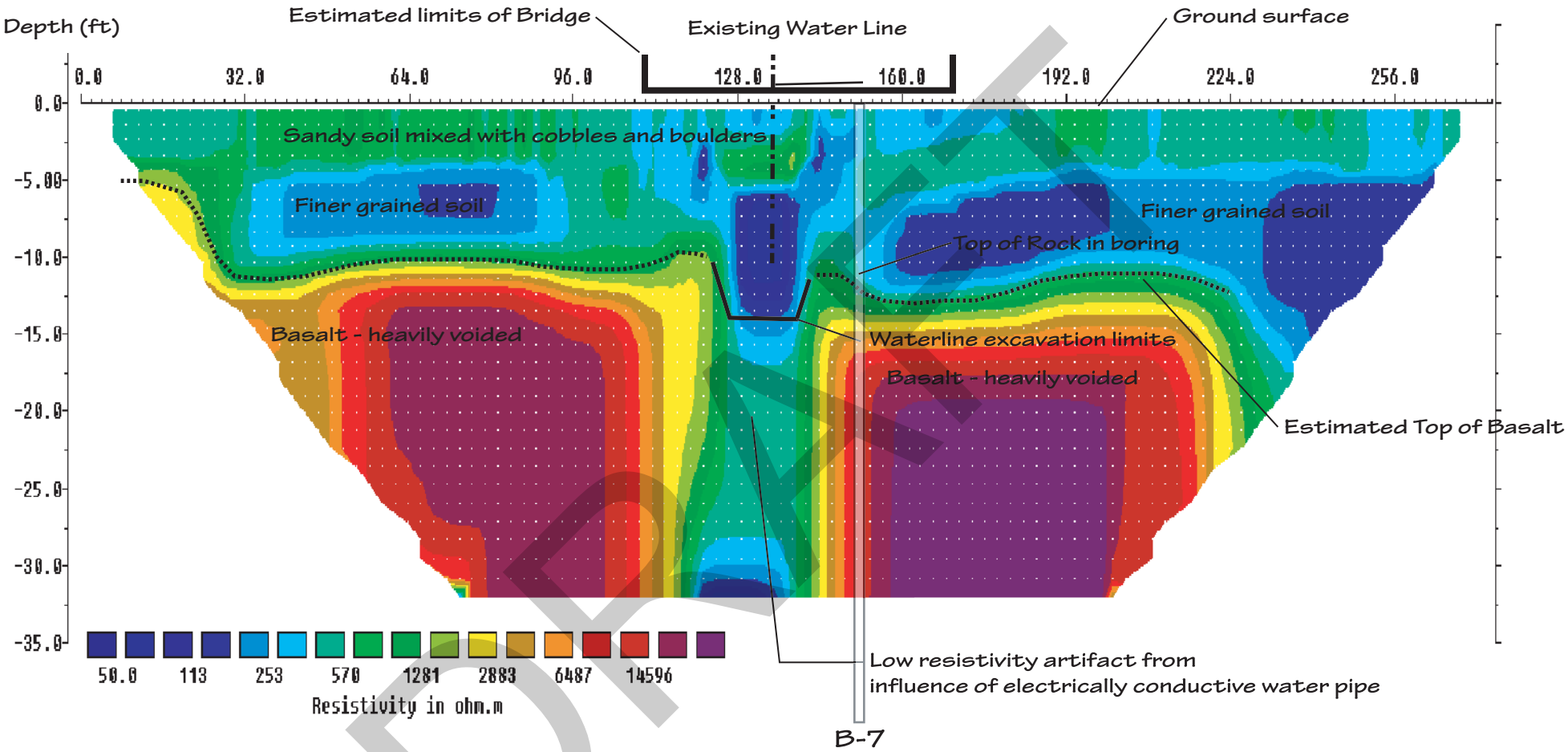
January 2012

Project # 121011

Prepared for: Shannon & Wilson, Inc.

Siemens & Associates

ERT #1: 56 pins, 5 foot spacing: Dipole-Dipole Array



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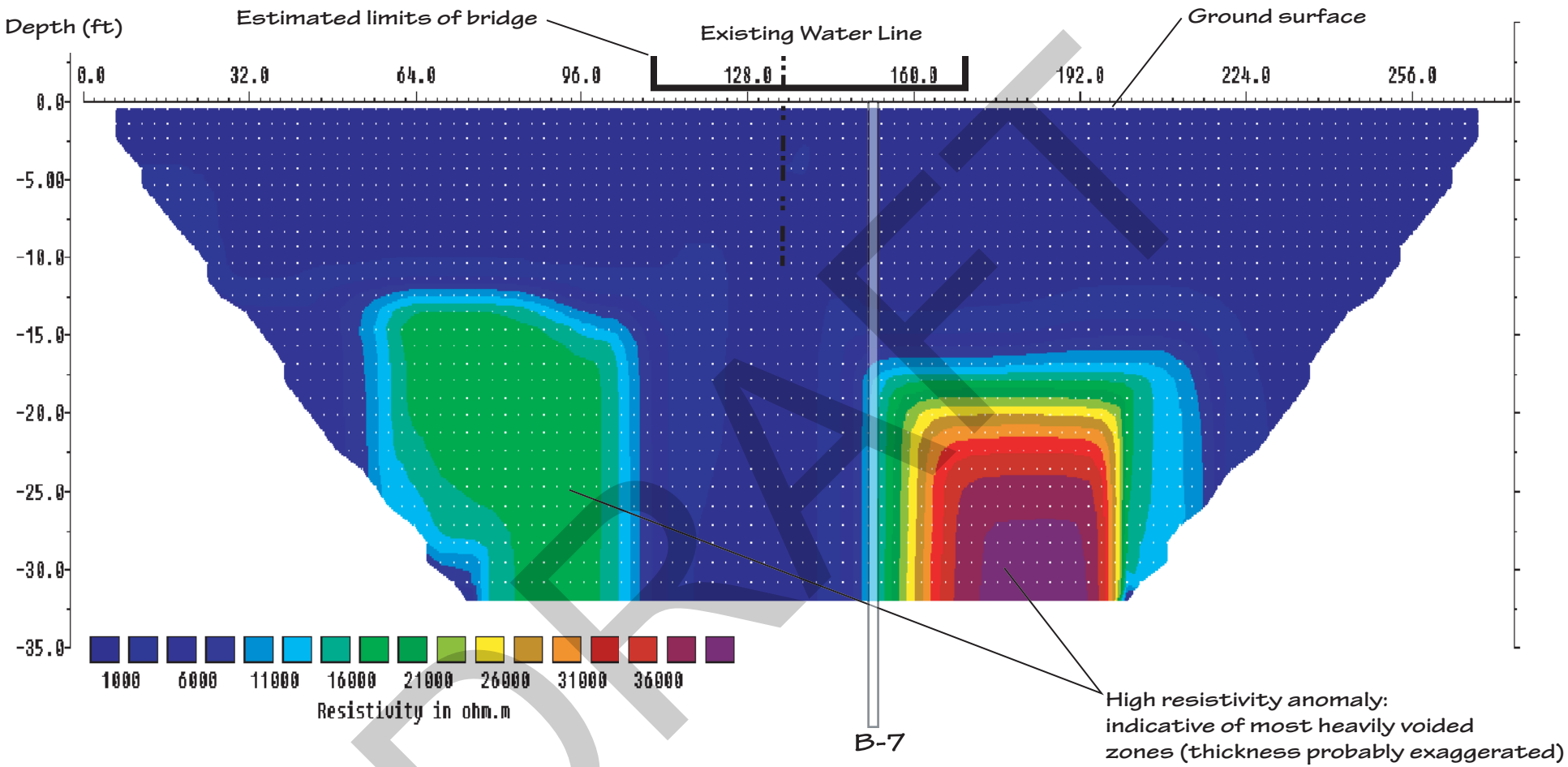
Scale:

H: 1 inch = 30 feet
V: 1 inch = 10 feet
(horizontal ticks at 2 foot intervals)

ERT 1: Logarithmic Scale	Figure #ERT 1	
American Lane Bridge Replacement City of Bend, Oregon	January 2012	Project # 121011
Prepared for: Shannon & Wilson, Inc.	Siemens & Associates	

ERT #1: 56 pins, 5 foot spacing: Dipole-Dipole Array



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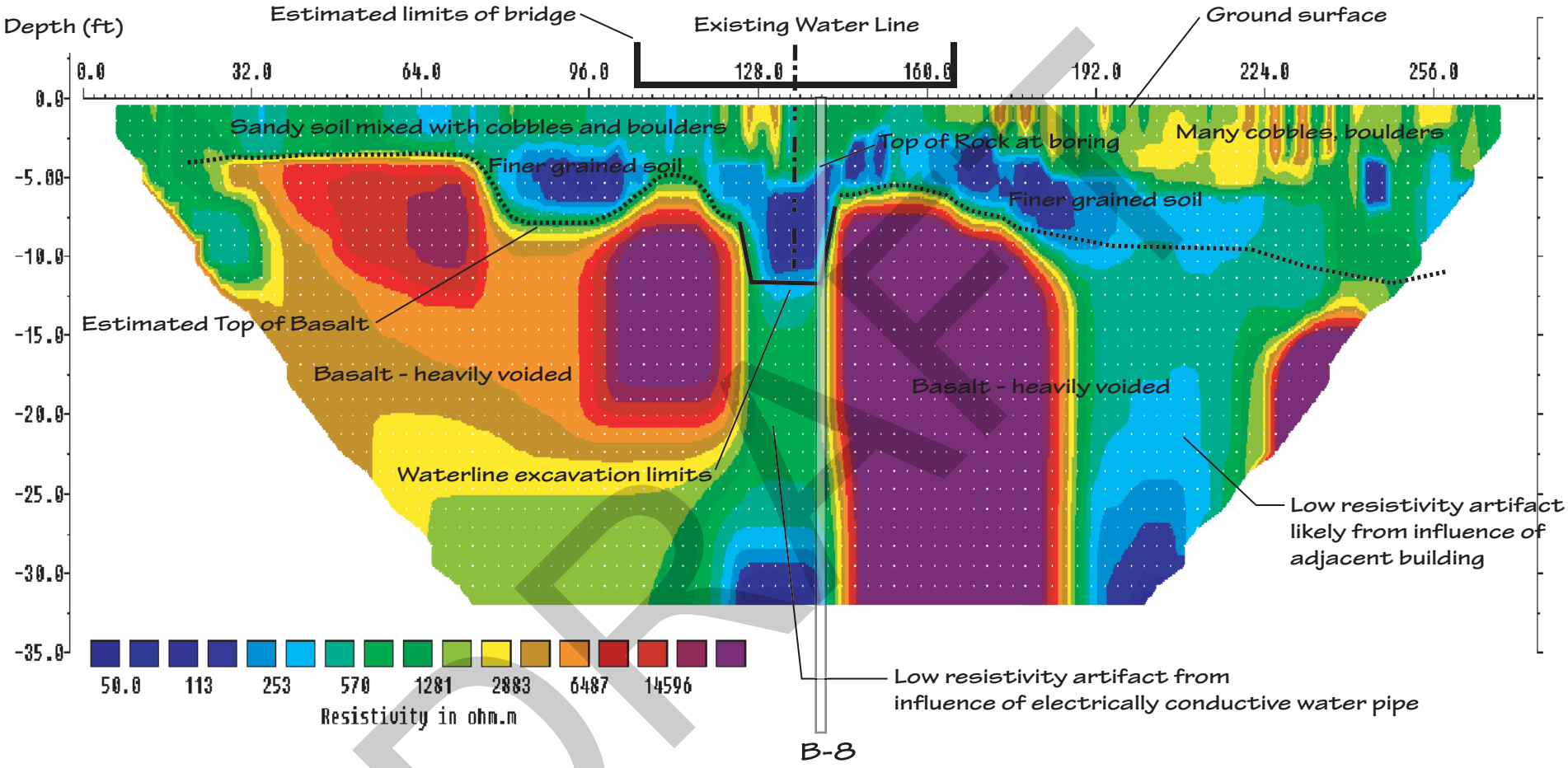
Scale:

H: 1 inch = 30 feet
V: 1 inch = 10 feet
(horizontal ticks at 2 foot intervals)

Azimuth ~ 105 degrees

ERT 1: Linear Scale	Figure #ERT 1a	
American Lane Bridge Replacement City of Bend, Oregon	January 2012	Project # 121011
Prepared for: Shannon & Wilson, Inc.	Siemens & Associates	

ERT #2: 56 pins, 5 foot spacing: Dipole-Dipole Array



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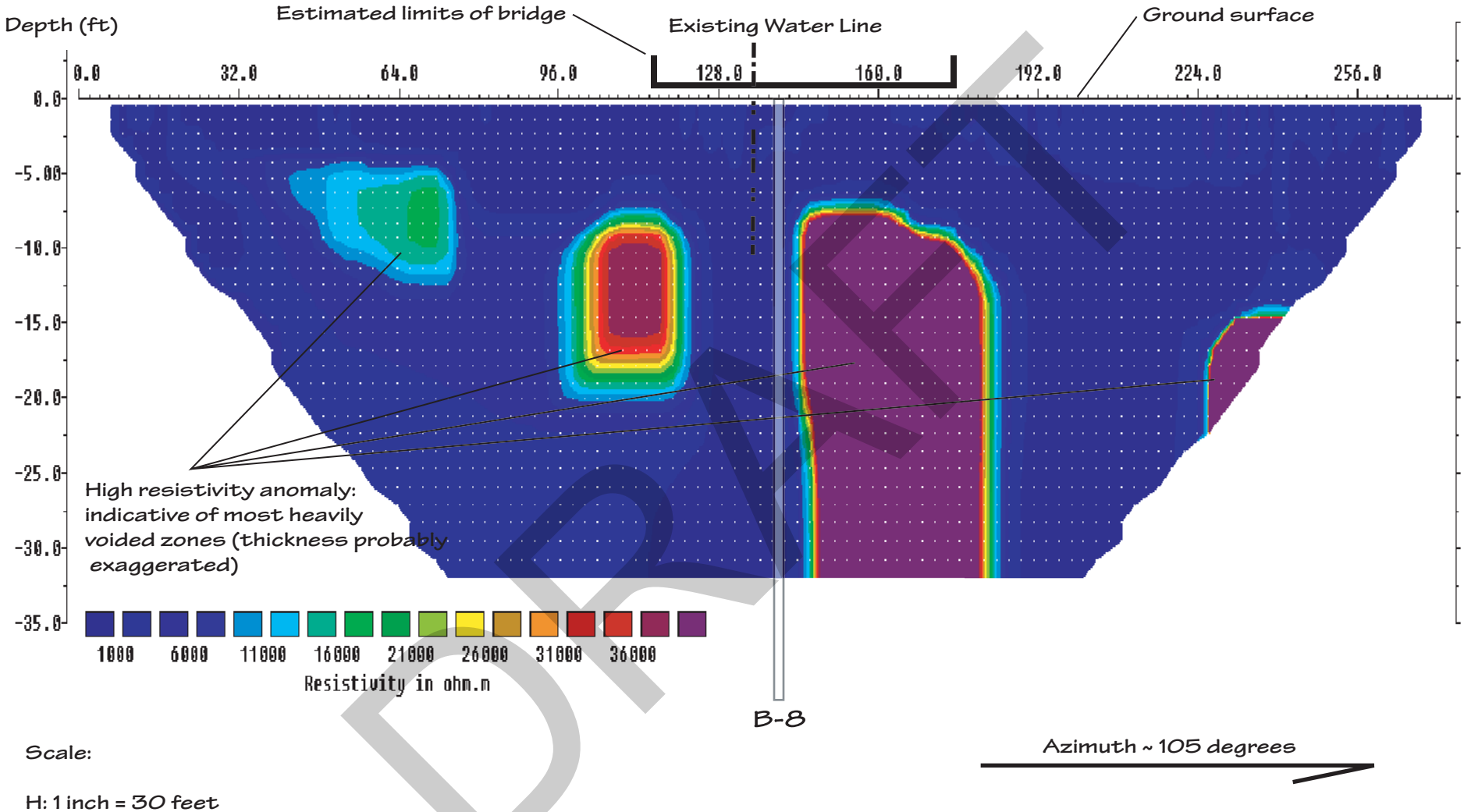
Scale:

H: 1 inch = 30 feet
V: 1 inch = 10 feet
(horizontal ticks at 2 foot intervals)

ERT 2: Logarithmic Scale	Figure #ERT 2	
American Lane Bridge Replacement City of Bend, Oregon	January 2012	Project # 121011
Prepared for: Shannon & Wilson, Inc.	Siemens & Associates	

ERT #2: 56 pins, 5 foot spacing: Dipole-Dipole Array

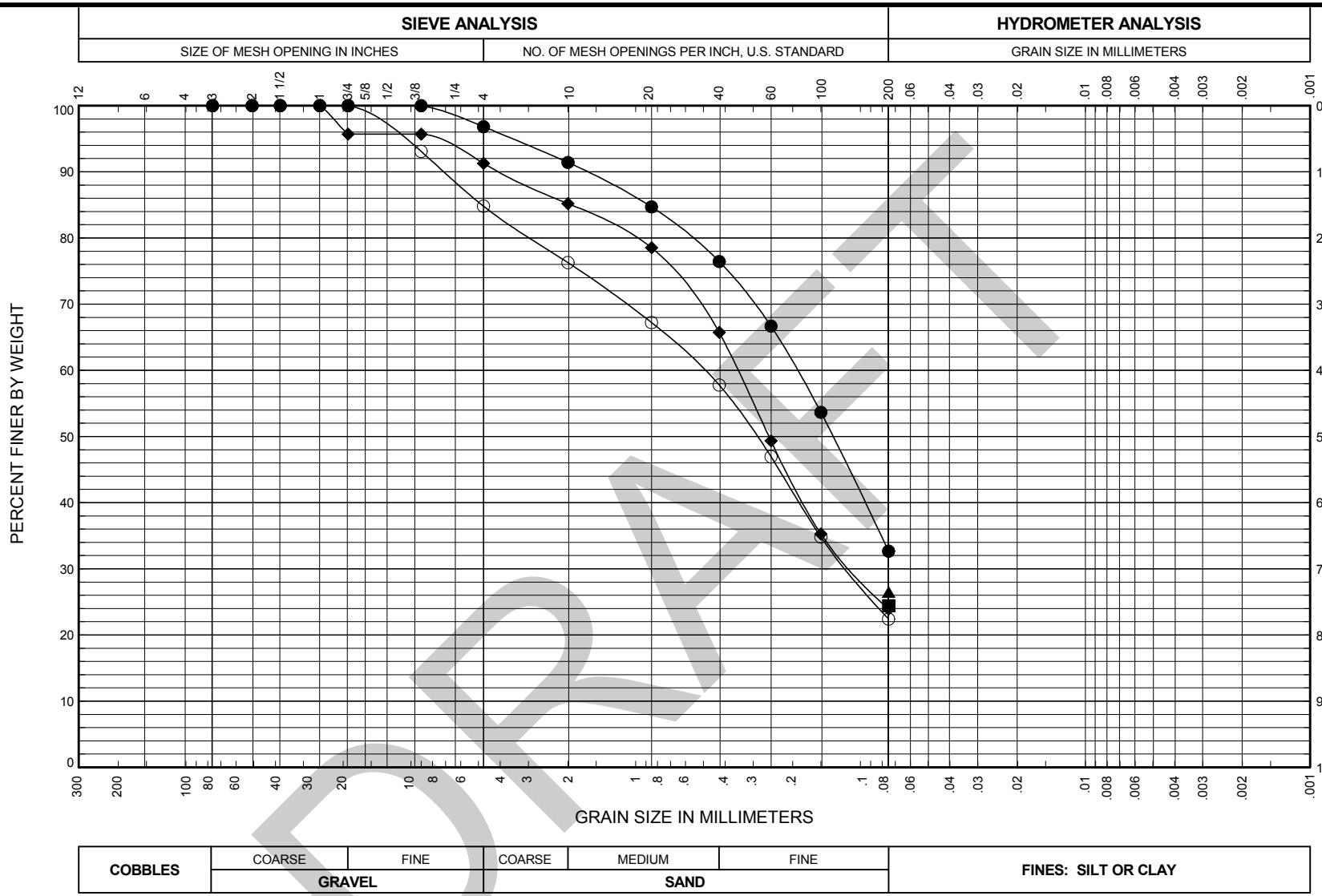


DRAFT

Scale:

H: 1 inch = 30 feet
V: 1 inch = 10 feet
(horizontal ticks at 2 foot intervals)

ERT 2: Linear Scale	Figure #ERT 2a	
American Lane Bridge City of Bend, Oregon	January 2012	Project # 121011
Prepared for: Shannon & Wilson, Inc.	Siemens & Associates	



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BORING AND SAMPLE NO.	DEPTH (feet)	U.S.C.S. SYMBOL	SAMPLE DESCRIPTION	GRAVEL %	SAND %	FINES %	NAT. W.C. %	DRY DENSITY PCF
● B-6, S-3	7.5	SM	Silty SAND	3	64	33	20	
■ B-7, S-1	2.5	SM	Silty SAND	-	-	24	26	
▲ B-7, S-3	10.0	SM	Silty SAND	-	-	27	28	
◆ B-9, S-2	5.0	SM	Silty SAND, trace gravel	9	67	24	16	
○ HA-5, S-1	2.0	SM	Silty SAND with gravel	15	62	22	19	

Bend Transportation G.O. Bond Program
Bend, Oregon

GRAIN SIZE DISTRIBUTION

July 2012 24-1-03675-004

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

FIG. D1
Sheet 2 of 2

FIG. D1

GSA MAIN 24-1-03675.GPJ SHAN WIL.GDT 7/5/12

Northwest Testing, Inc.
A Division of Northwest Geotech, Inc.
9120 SW Pioneer Court, Suite B • Wilsonville, Oregon 97070 503/682-1880 FAX: 503/682-2753

TECHNICAL REPORT

Report To:	Mr. Jason Garner, PE Shannon & Wilson, Inc. 3990 S.W. Collins Way, Suite 203 Lake Oswego, Oregon 97035	**Date:** **Lab No:**	2/9/12 12-010
Project:	Laboratory Testing – 24-1-03675-004	**Project No.:**	1984.1.1

Report of: Unconfined compression of rock

Sample Identification

NTI completed unconfined compression testing of rock samples delivered to our laboratory on February 7, 2012 by a Shannon & Wilson, Inc. representative. Testing was performed in accordance with the standards indicated. Our laboratory test results are summarized on the following table.

Laboratory Testing

Unconfined Compressive Strength of Rock (ASTM D 2938)				
Sample ID	**Diameter (inches)**	**Height (inches)**	**Rate of Strain (%/min)**	**Unconfined Compressive Strength (psi)**
B-7 1a @ 24 – 25.5 ft.	2.40	4.81	1	10,103
B-7 1b @ 14 – 15 ft.	2.40	4.77	1	5,694

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Copies: Addressee
Kim Elliott, Shannon and Wilson, Inc.

This report shall not be reproduced except in full, without written approval of Northwest Geotech, Inc.

APPENDIX B: LABORATORY TEST RESULTS

Appendix B

Laboratory Test Results

CONTENTS

B.1 General....1
B.2 Soil Testing....1
B.2.1 Moisture (Natural Water) Content....1
B.2.2 Atterberg Limits....1
B.2.3 Particle Size Analysis....2
B.2.4 Corrosivity Testing....2
B.3 Rock Testing....3

Figures

Figure B1: Atterberg Limits Results
Figure B2: Grain Size Distribution

Attachments

Cooper Testing Labs Report – dated December 11, 2024
NTI Lab Report dated January 23, 2025

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APPENDIX B: LABORATORY TEST RESULTS

B.1 GENERAL

Soil and rock samples obtained during field explorations were described and identified in the field by Shannon & Wilson, Inc. in accordance with the ODOT Geotechnical Design Manual (2024). The samples were then reviewed in the laboratory. Physical characteristics of the samples were noted, and field descriptions and identifications were modified as necessary. During the review, representative soil and rock samples were selected for further testing. The material descriptions and identifications were refined, as necessary, based on the results of the laboratory tests.

The soil testing program included moisture content tests, Atterberg limits tests, particle-size analysis, and corrosivity testing. Uniaxial compressive strength testing was performed on selected rock core samples. Laboratory testing was performed by Shannon & Wilson, Northwest Testing, Inc. (NTI) of Wilsonville, Oregon, and Cooper Testing of Palo Alto, California. All test procedures were performed in accordance with applicable ASTM International standards. Test procedures are summarized in the following paragraphs.

B.2 SOIL TESTING

B.2.1 Moisture (Natural Water) Content

Natural moisture content tests were performed, in accordance with ASTM D2216, on selected soil samples. The natural moisture content is a measure of the amount of moisture in the soil at the time of exploration. It is defined as the ratio of water weight to dry soil weight, expressed as a percentage. Results of all moisture content tests are presented in the Drill Logs in Appendix A.

B.2.2 Atterberg Limits

Atterberg limits were determined for selected samples in accordance with ASTM D4318. This analysis yields index parameters of the soil that are useful in soil identification, as well as in engineering analyses. An Atterberg limits test determines a soil's liquid limit (LL) and plastic limit (PL). These are the maximum and minimum moisture contents at which the soil exhibits plastic behavior. A soil's plasticity index (PI) can be determined by subtracting PL from LL. All Atterberg limit test results are plotted in Figure B1, Atterberg Limits Results, and shown in the Drill Logs in Appendix A.

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B.2.3 Particle Size Analysis

Particle-size analyses were conducted on samples to determine their grain-size distributions. Grain-size distributions were determined in accordance with ASTM D6913 and ASTM D1140, as applicable. For all samples, a wet sieve analysis was performed to determine the percentage (by weight) of each sample passing the No. 200 (0.075 mm) sieve. The material retained on the No. 200 sieve was then shaken through a series of sieves to determine the distribution of the plus No. 200 fraction. For some tests, only the percentage of the sample passing the No. 200 (0.075mm) sieve was determined (ASTM D1140). Results of all particle-size analyses are presented in Figure B2, Grain Size Distribution. The resulting gravel, sand, and fines percentages are also presented in the Drill Logs in Appendix A.

B.2.4 Corrosivity Testing

The following tests were performed by Cooper Testing Labs to evaluate the corrosivity of the soil:

- pH of soil (ASTM D4972)
- Soil Resistivity (ASTM G57)
- Chloride Ion in Water (ASTM D512-12)
- Sulfate Ion in Water (ASTM D516-16)
- Oxidation-Reduction Potential of Soil (ASTM G200-14)

Results of the testing can be found in the attached report from Cooper Testing Labs.

The corrosion potential of a soil is primarily evaluated by comparing measured pH, resistivity, and sulfate and chloride concentrations to the values specified in Section 10.7.5 of the AASHTO LFRD Bridge Design Specifications (8th Edition 2017).

Soil pH is a measurement of the hydrogen ion activity of the soil. Soil pH is reported in Standard Units (S.U.) on a scale ranging from 0 to 14, with 7 being neutral. Soils with a pH less than 7 are considered acidic and soils with a pH greater than 7 are considered alkaline. According to the AASHTO specifications, soils with a pH less than 5.5 and soils with a pH between 5.5 and 8.5 that also have high organic content are considered potentially corrosive. Soil pH of the tested samples ranged from 6.7 to 7.7.

Resistivity (expressed as ohms-centimeter or ohms-cm) is the numerical expression of the ability of a soil to impede the transmission of an electrical current. Resistivity is the inverse of conductivity and is dependent on the presence of ions, their concentrations, mobility, and valence, as well as soil moisture and temperature. The AASHTO specifications state that

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effects of corrosion and deterioration shall be considered if resistivity values are less than 2,000 ohms-cm. The resistivity of the tested samples ranged from 14,175 to 38,104 ohms-cm.

Sulfate and chloride concentrations were also measured in the composite soil sample. Sulfates can be converted to sulfides by naturally occurring bacteria. Sulfides, when allowed to oxidize, will produce sulfuric acid, which is highly corrosive. Chlorides will also chemically react and facilitate dissolution reactions with metals and concrete. According to the AASHTO specifications, the soil is considered corrosive if the concentration of sulfate is greater than 1,000 parts per million (ppm) or the concentration of chloride is greater than 500 ppm. Sulfate and chloride concentrations in the tested samples were all less than 10 ppm.

B.3 ROCK TESTING

Selected rock core samples were tested using ASTM D7012 (Method C), the Compressive Strength of Intact Rock Core Specimens. The test consists of placing a rock core specimen between two bearing plates and applying and measuring an axial load increasing at a constant rate until failure. During the application of increasing axial load, the strain of the core sample is continuously measured with a dial indicator placed between the two bearing blocks, measuring the decreasing length of the rock core. The highest load achieved and the length of the rock core at failure are recorded. Measurements made during the test are used to calculate the uniaxial compressive strength, Co, in pounds per square inch. Results are presented on the Drill Logs in Appendix A and the NTI Report attached to the end of this appendix.

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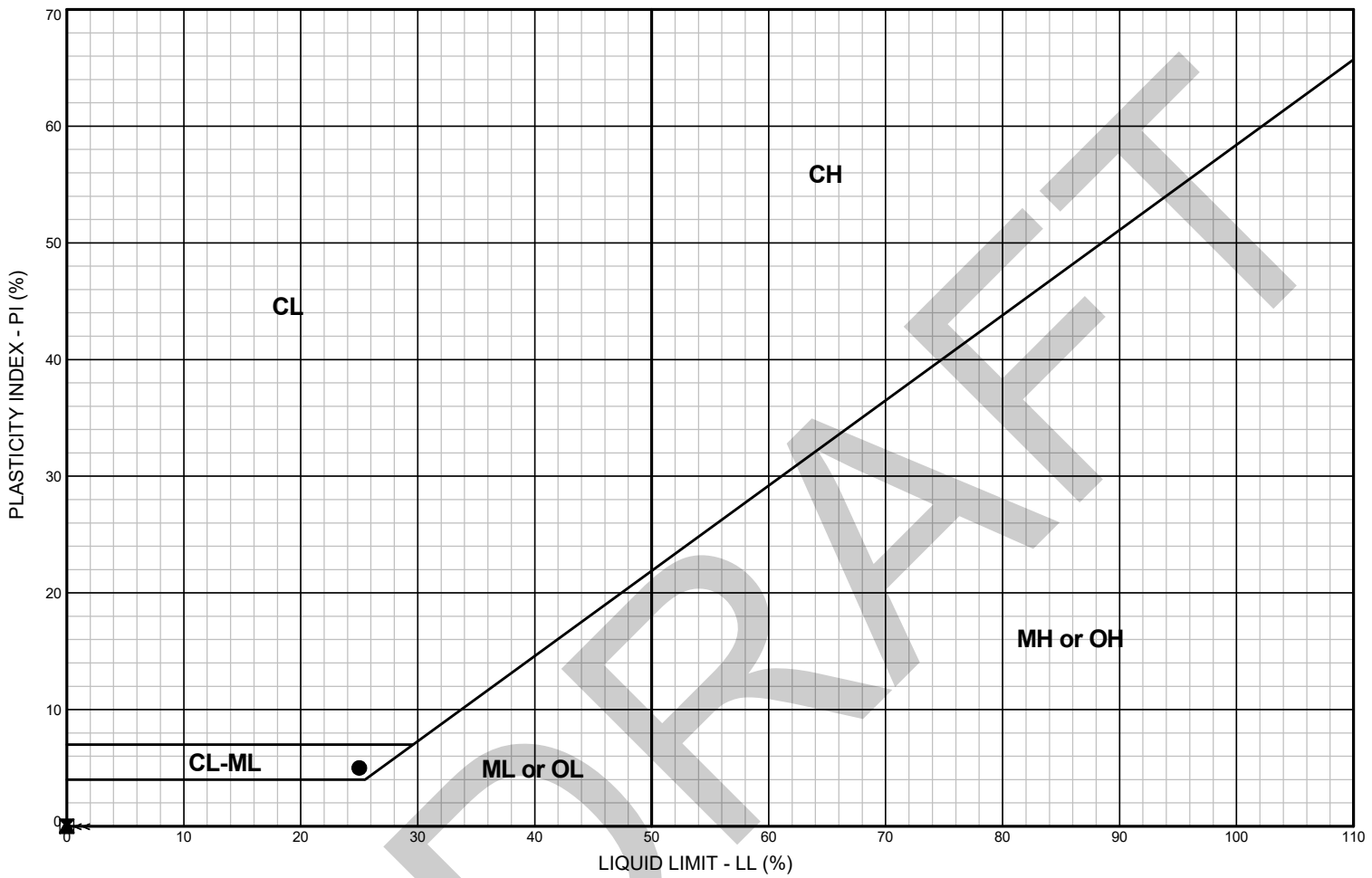

NOTES

1) Atterberg limits tests were performed in general accordance with ASTM D4318 unless otherwise noted in the report.

2) Group Name and Group Symbol are in accordance with ASTM D2488 and are refined in accordance with ASTM D2487 where appropriate laboratory tests are performed.

3) Plasticity adjectives used in sample descriptions correspond to plasticity index as follows:
- Nonplastic (NP) (< 3%)
- Low Plasticity (3 to 15%)
- Medium Plasticity (15 to 30%)
- High Plasticity (> 30%)

BORING AND SAMPLE NO.	DEPTH (feet)	GROUP SYMBOL[2]	GROUP NAME[2]	LL %	PL %	PI %[3]	NAT. W.C. %	FINES %
● B-05, N3	7.5	*ML*	*Sandy SILT with trace gravel*	25	20	5	22	
B-16, N4	10.0	*SM*	*Silty SAND*	NP	NP	NP	25	40
B-16, N6	15.0	*ML*	*Sandy SILT with trace gravel*	NP	NP	NP	42	

Reed Market Corridor Study
Bend, Oregon

ATTERBERG LIMITS RESULTS

May 2025 113462

SHANNON & WILSON

FIG. B1

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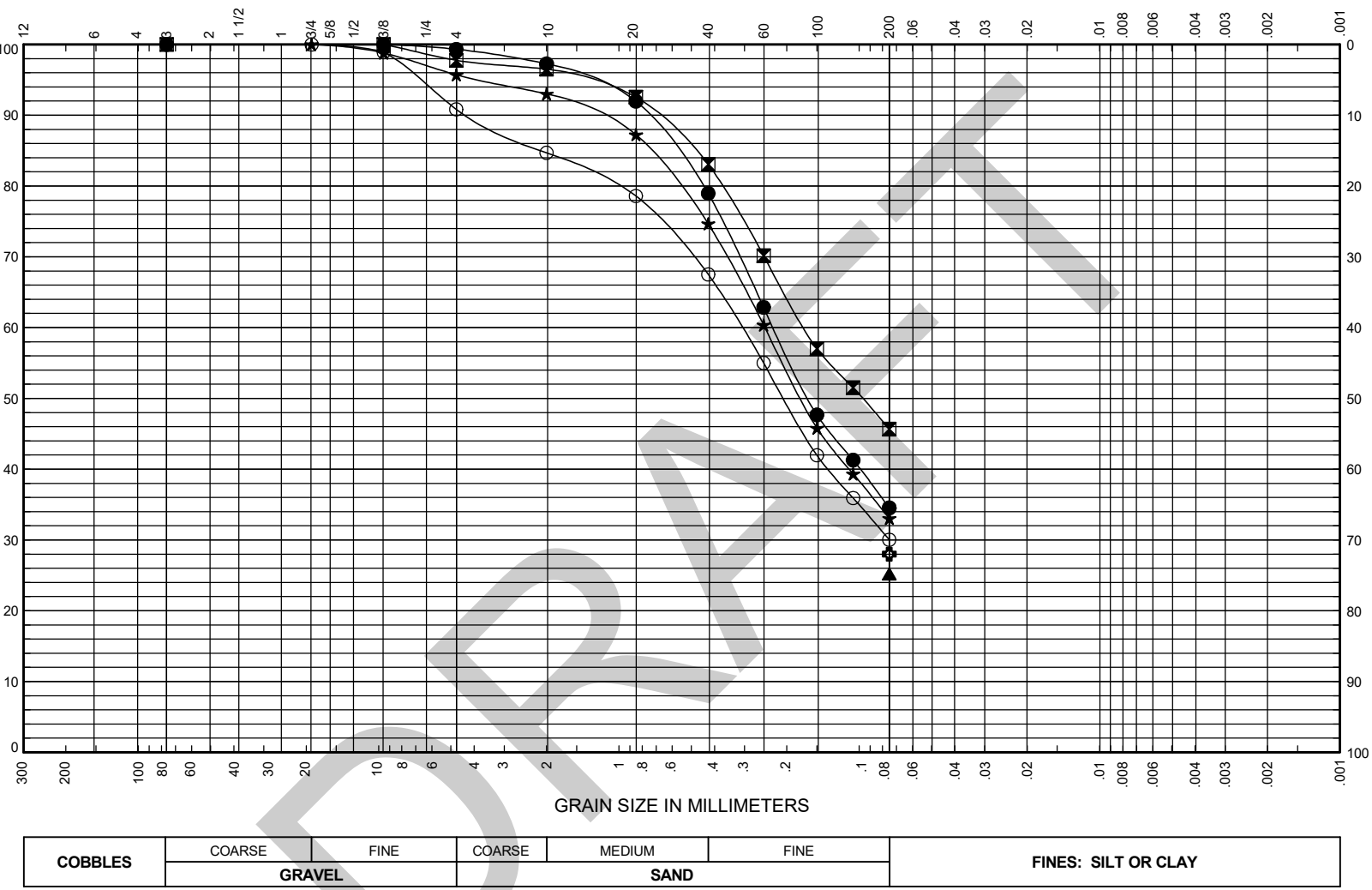
ATT_MAIN 113462.GPJ SHAN WIL.GDT 2/20/25

FIG. B1



NOTES:
1) Sieve analyses were performed in general accordance with ASTM D6913, sieve with hydrometer analyses were performed in general accordance with ASTM D422, and amount finer than #200 sieve analyses were performed in general accordance with ASTM D1140 unless otherwise noted in the report.
2) Group Name and Group Symbol are in accordance with ASTM D2488 and are refined in accordance with ASTM D2487 where appropriate laboratory tests are performed.

BORING AND SAMPLE NO.	DEPTH (feet)	GROUP SYMBOL[2]	GROUP NAME[2]	GRAVEL %	SAND %	FINES %	NAT. W.C. %	DRY DENSITY PCF
● B-05, N2	5.0	*ML*	*Silty SAND with trace gravel*	1	65	35	19	
⊠ B-06, N3	7.5	*SM*	*Silty SAND with trace gravel*	2	52	46	22	
▲ B-08, N3	7.5	*SM*	*Silty SAND with trace gravel*	-	-	25	14	
★ B-09, N2	5.0	*SM*	*Silty SAND with trace gravel*	4	63	33	20	
⊙ B-10, N3	7.5	*SM*	*Silty SAND with trace gravel*	-	-	35	17	
✿ B-11, N3	7.5	*SM*	*Silty SAND with trace gravel*	-	-	28	14	
○ B-12, N2	5.0	*SM*	*Silty SAND with trace gravel*	9	61	30	16	

Reed Market Corridor Study
Bend, Oregon

GRAIN SIZE DISTRIBUTION

May 2025 113462

SHANNON & WILSON

FIG. B2
Sheet 1 of 2

FIG. B2

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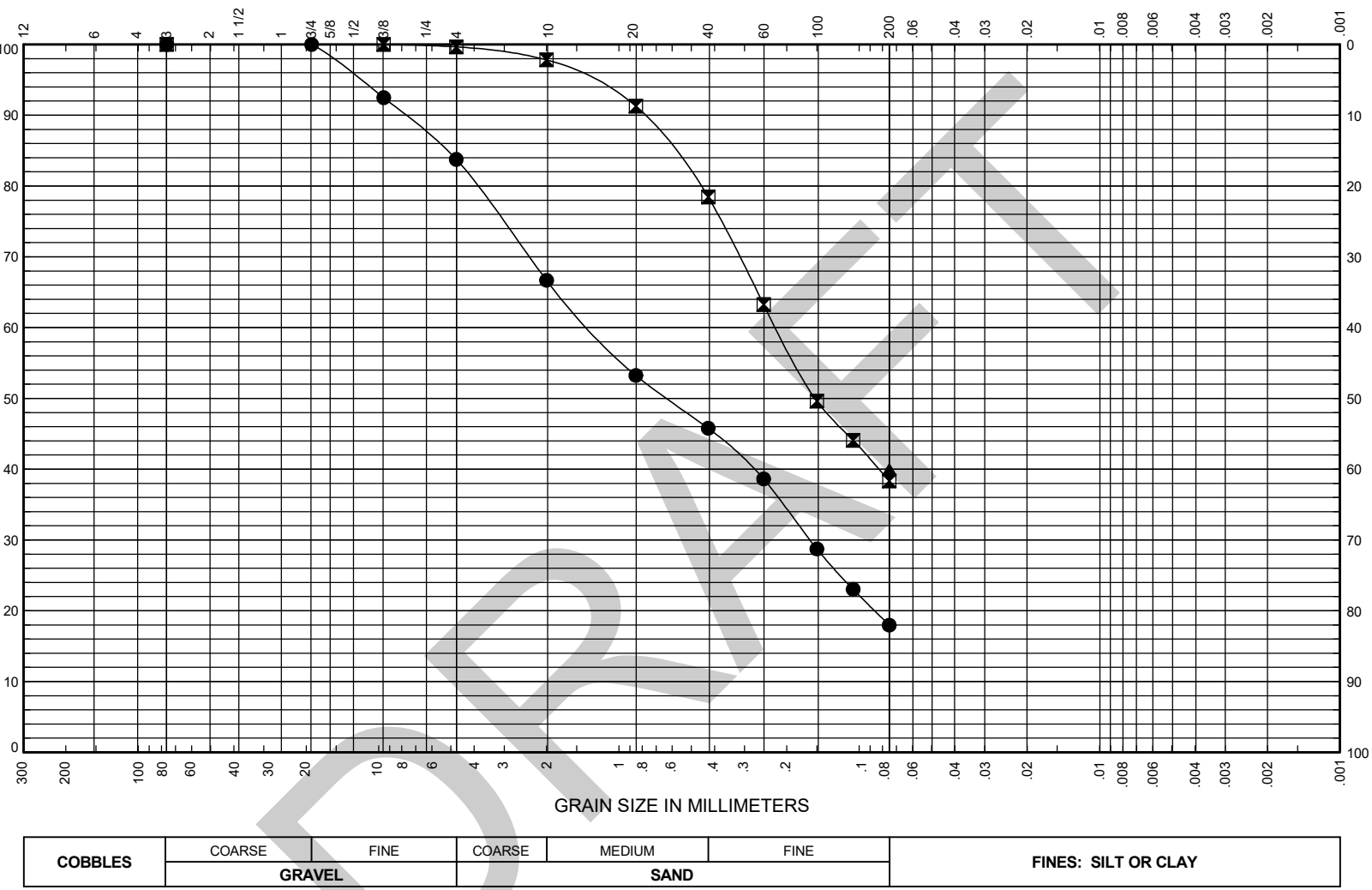
GSA MAIN 113462.GPJ SHAN WIL.GDT 2/20/25



NOTES:
1) Sieve analyses were performed in general accordance with ASTM D6913, sieve with hydrometer analyses were performed in general accordance with ASTM D422, and amount finer than #200 sieve analyses were performed in general accordance with ASTM D1140 unless otherwise noted in the report.
2) Group Name and Group Symbol are in accordance with ASTM D2488 and are refined in accordance with ASTM D2487 where appropriate laboratory tests are performed.

BORING AND SAMPLE NO.	DEPTH (feet)	GROUP SYMBOL[2]	GROUP NAME[2]	GRAVEL %	SAND %	FINES %	NAT. W.C. %	DRY DENSITY PCF
● B-14, N1	2.5	*SM*	*Silty SAND with some rock fragments*	16	66	18	11	
⊠ B-16, N2	5.0	*SM*	*Silty SAND with trace gravel*	0	61	38	22	
▲ B-16, N4	10.0	*SM*	*Silty SAND*	-	-	40	25	

Reed Market Corridor Study
Bend, Oregon

GRAIN SIZE DISTRIBUTION

May 2025 113462

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FIG. B2
Sheet 2 of 2

FIG. B2

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GSA MAIN 113462.GPJ SHAN WIL.GDT 2/20/25

Corrosivity Tests Summary

CTL # 645-211 **Date:** 12/11/2024 **Tested By:** PJ **Checked:** PJ
Client: Shannon & Wilson **Project:** Reed Marke Rd - Bend, OR **Proj. No:** 113462
Remarks:

Sample Location or ID			Resistivity @ 15.5 °C (Ohm-cm)			Chloride	Sulfate		pH	ORP (Redox)		Sulfide	Moisture	Soil Visual Description
			As Rec.	Min	Sat.	mg/kg	mg/kg	%		E_H (mv)	At Test	Qualitative by Lead	At Test %	
						Dry Wt.	Dry Wt.	Dry Wt.						
Boring	Sample, No.	Depth, ft.	ASTM G57	Cal 643	ASTM G57	ASTM D4327	ASTM D4327	ASTM D4327	ASTM G51	ASTM G200	Temp °C	Acetate Paper	ASTM D2216	
B-05	N3	7.5-9.0	14,175	-	-	12	13	0.0013	7.7	428	15	-	19.4	Dark Brown Clayey SAND
B-16	N3	7.5-9.0	38,104	-	-	<2	3	0.0003	6.7	428	15	-	25.0	Brown Clayey SAND

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TECHNICAL REPORT

Report To:	Ms. Veronica Biesiada Shannon & Wilson, Inc. 3990 SW Collins Way, Suite 203 Lake Oswego, Oregon 97035	**Date:** **Lab No.:**	1/23/2025 24-775
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Report of: Unconfined compression testing of rock cores with stress-strain.

Sample Identification

As requested, NTI provided unconfined compression testing of rock cores with stress-strain on samples delivered to our laboratory by a Shannon and Wilson, Inc. representative on December 4, 2024. Testing was performed in general accordance with the indicated standard. Our laboratory's test results are summarized on the following tables and pages.

Laboratory Testing

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Copies: (1) Addressee
(1) James Walters, Shannon & Wilson, Inc.

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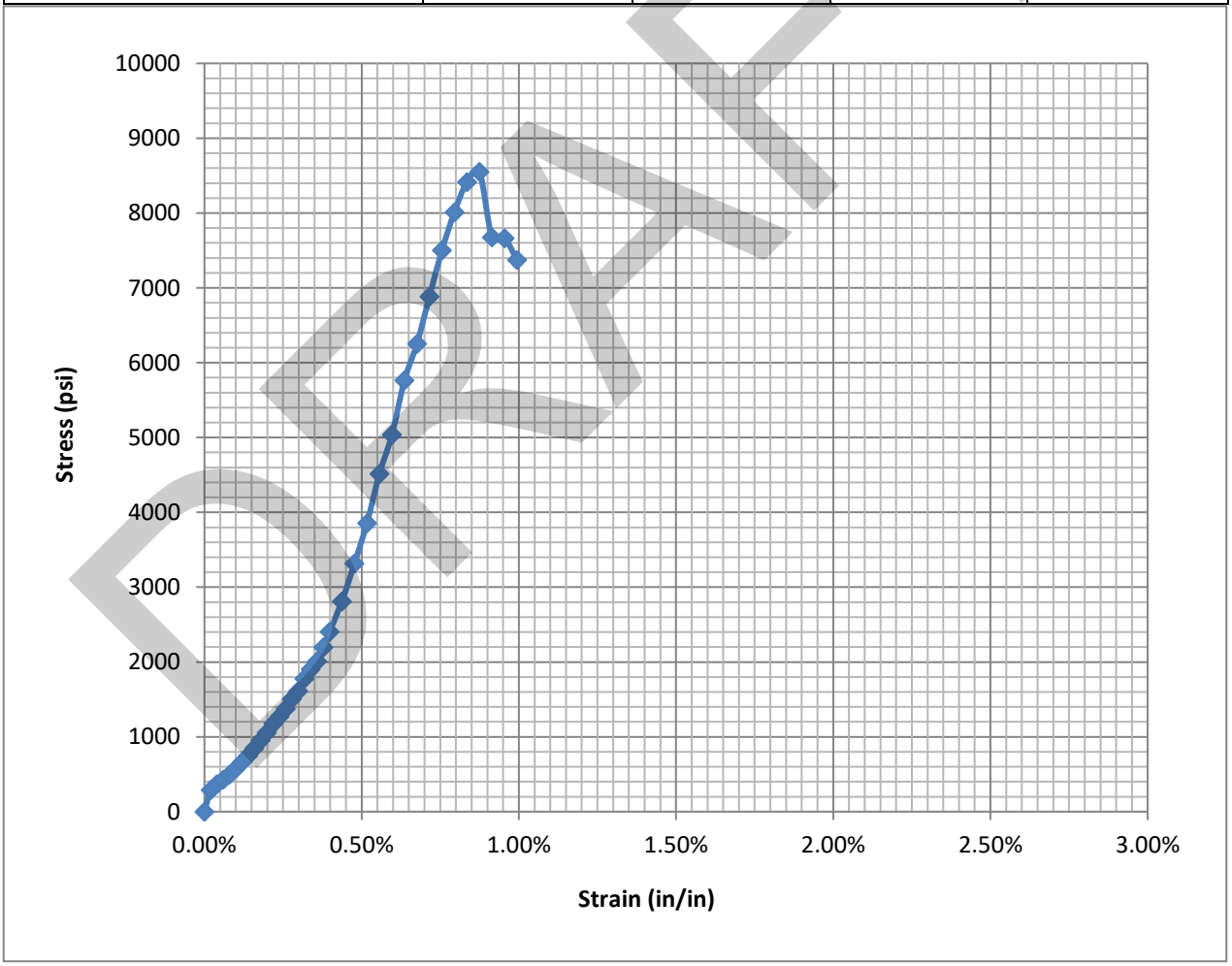
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-02, R-2 @ 15.1 – 16.0 Ft.	2.39	5.03	148	8550



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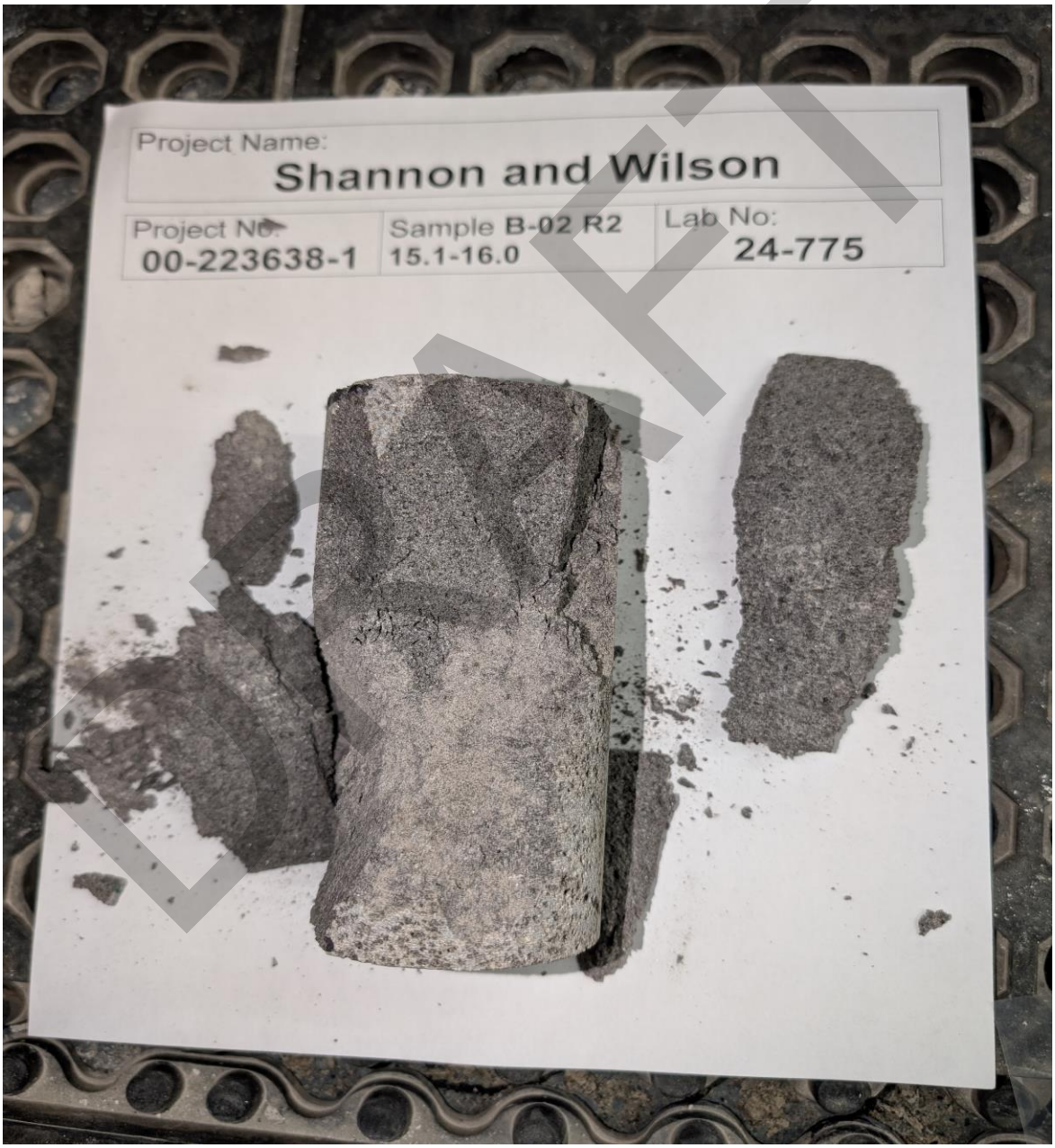

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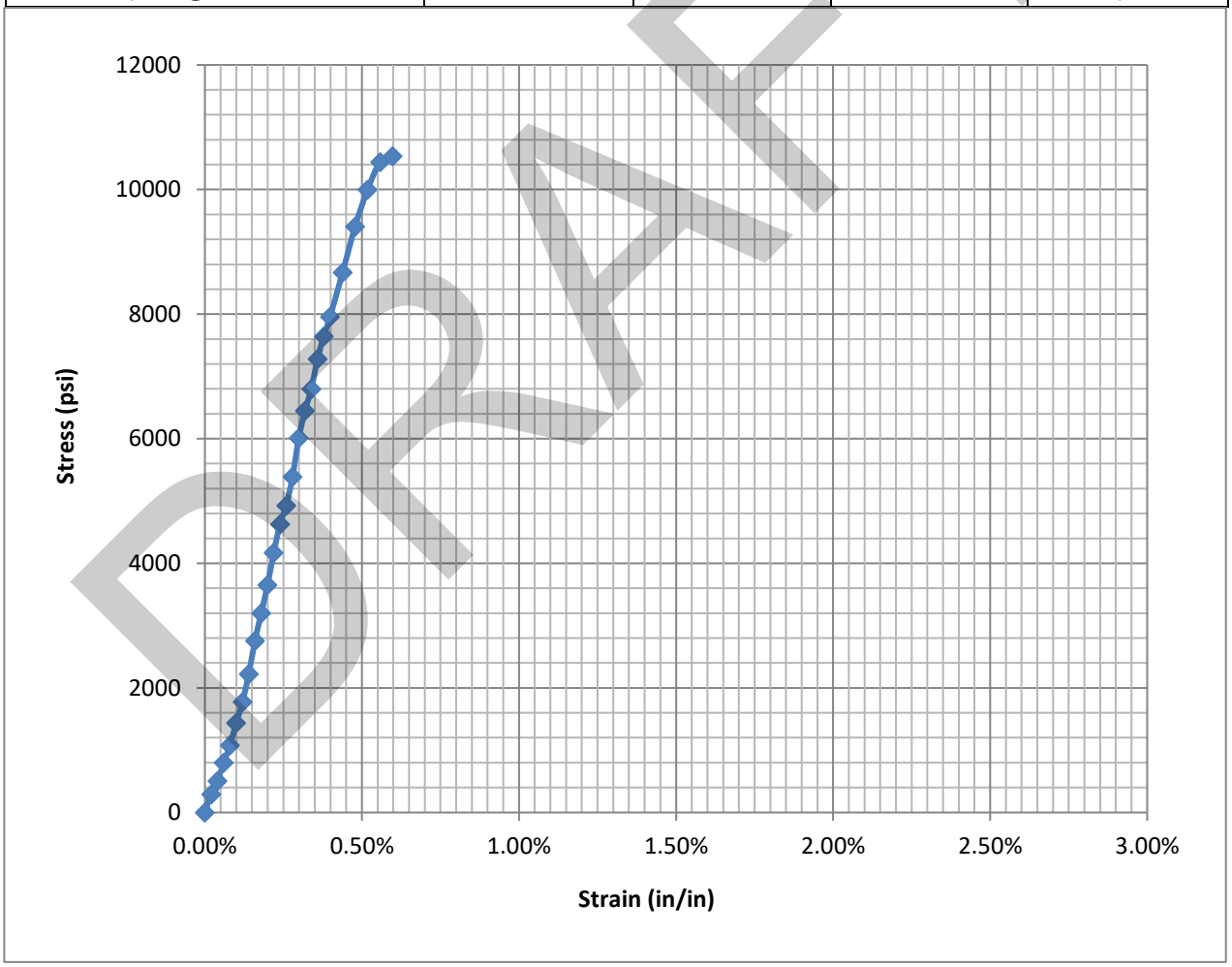
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-03, R2 @ 9.0 – 9.6 Ft.	2.39	5.02	264	10,566



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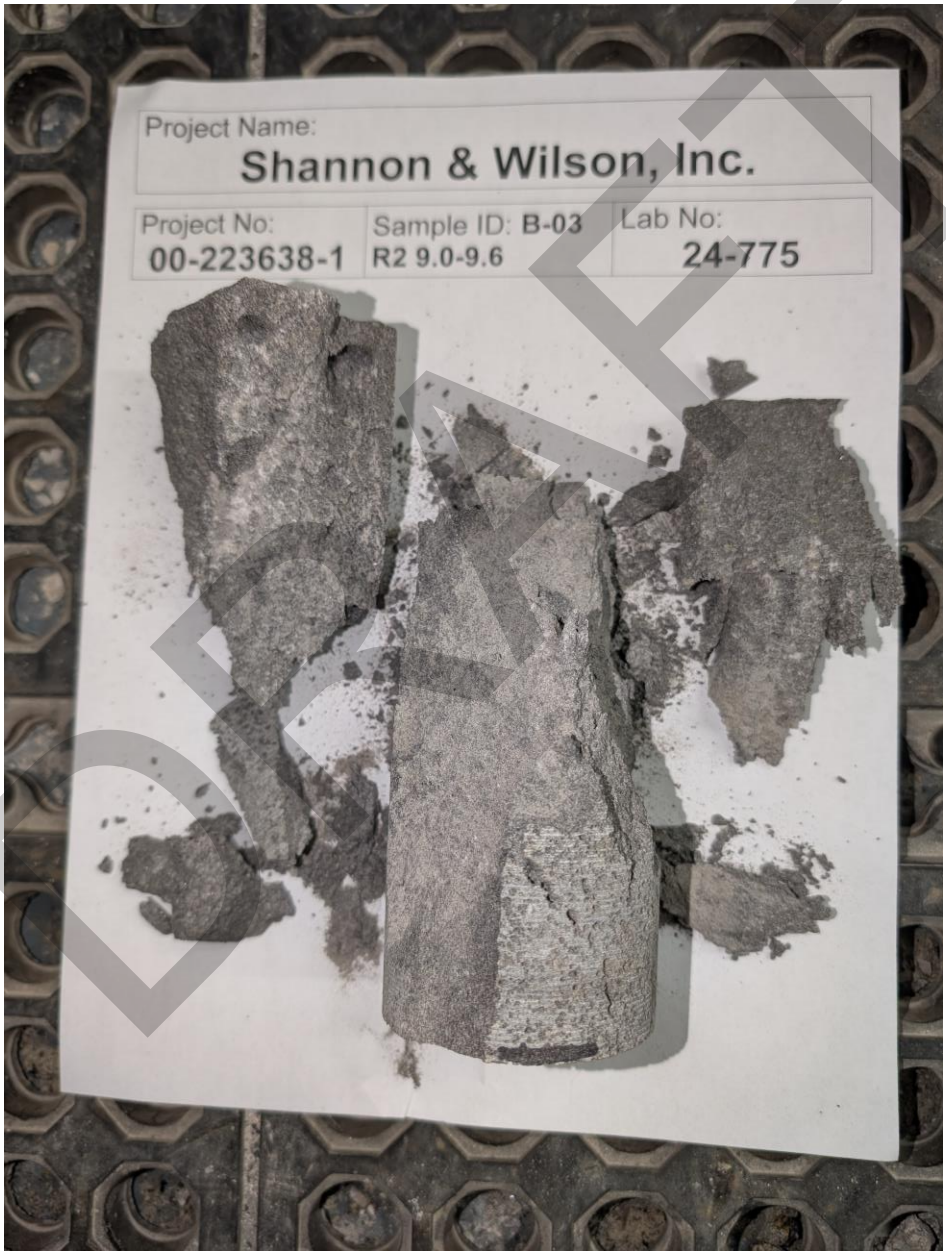

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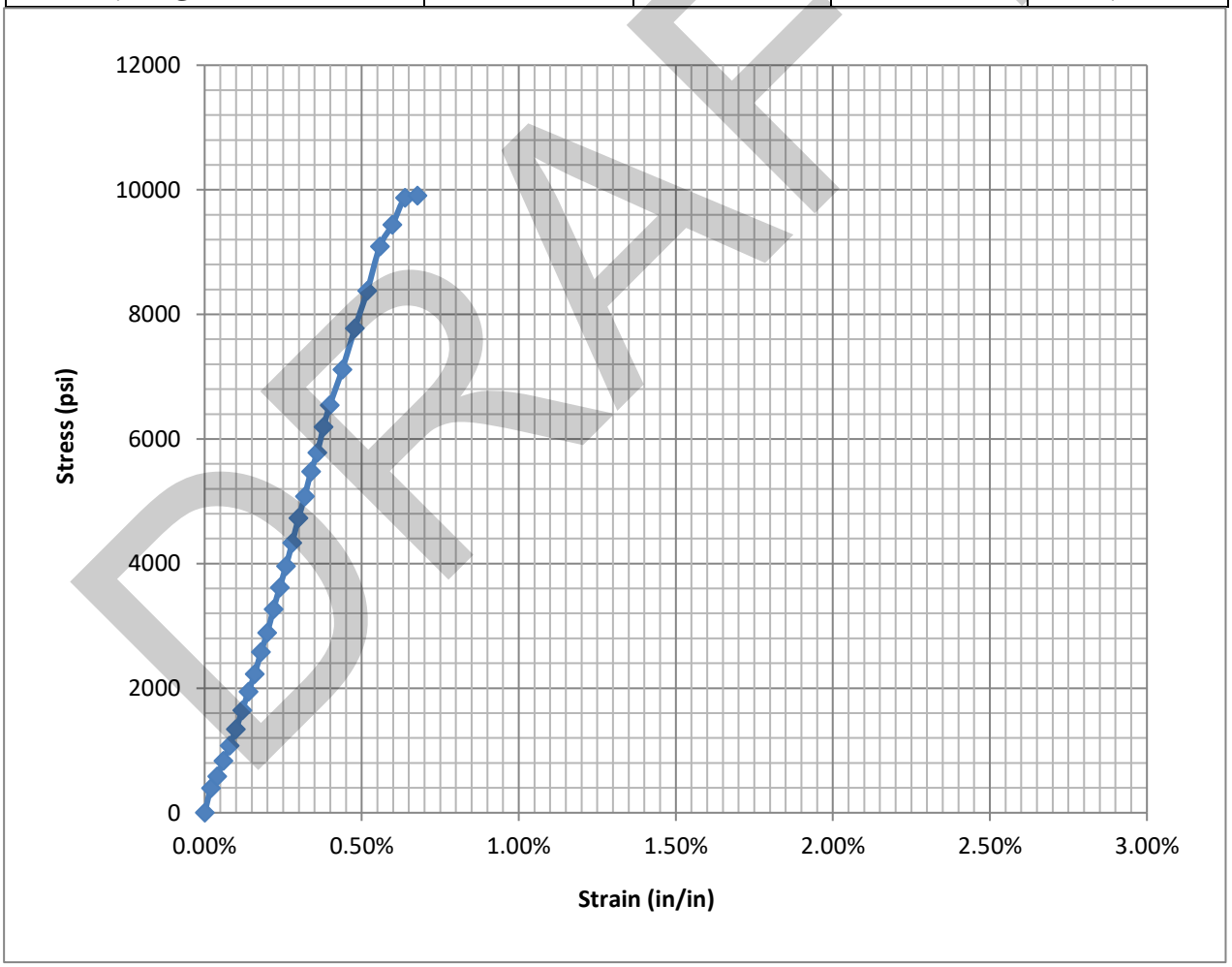
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-04, R1 @ 15.2 – 16.0 Ft.	2.39	5.02	265	9,909



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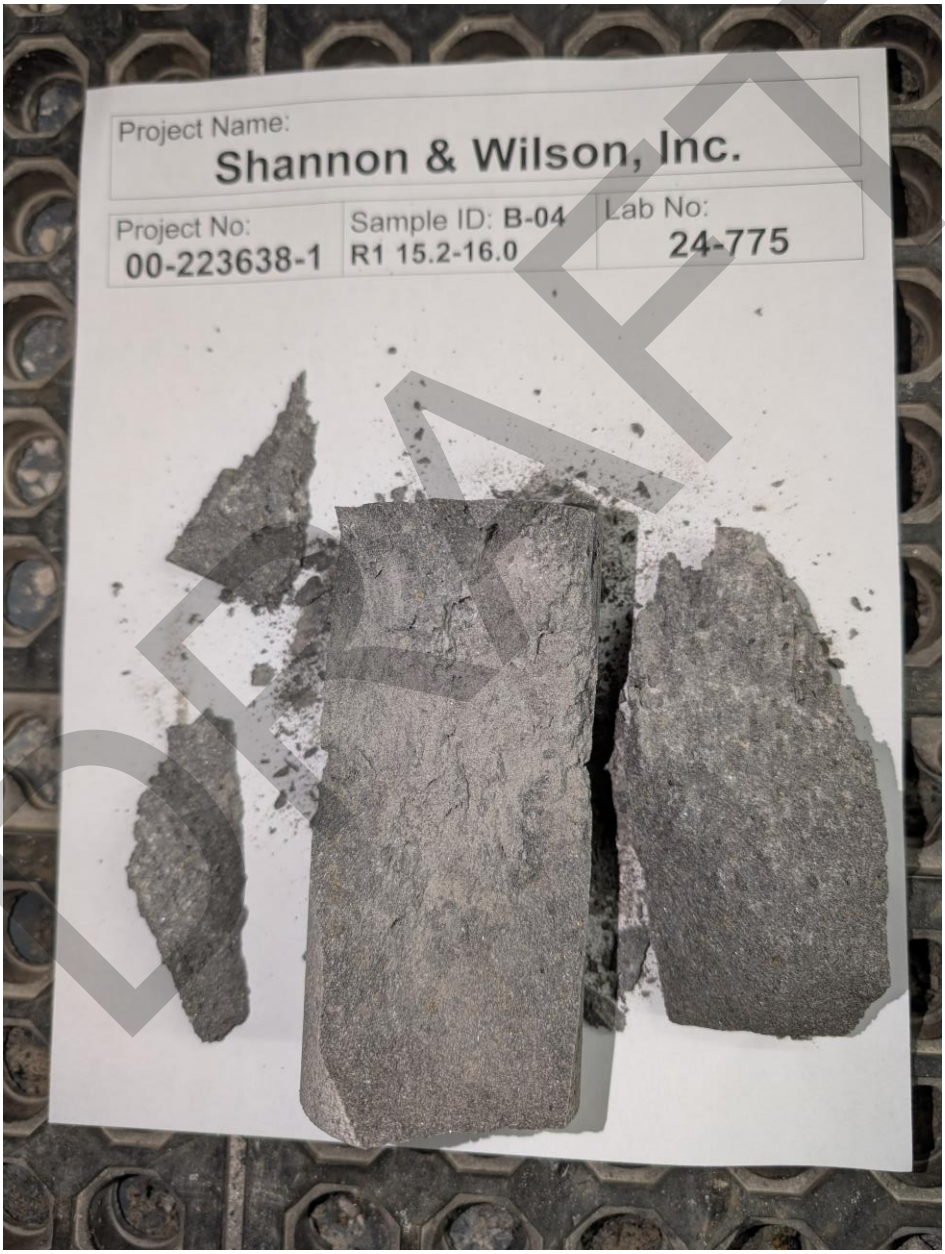

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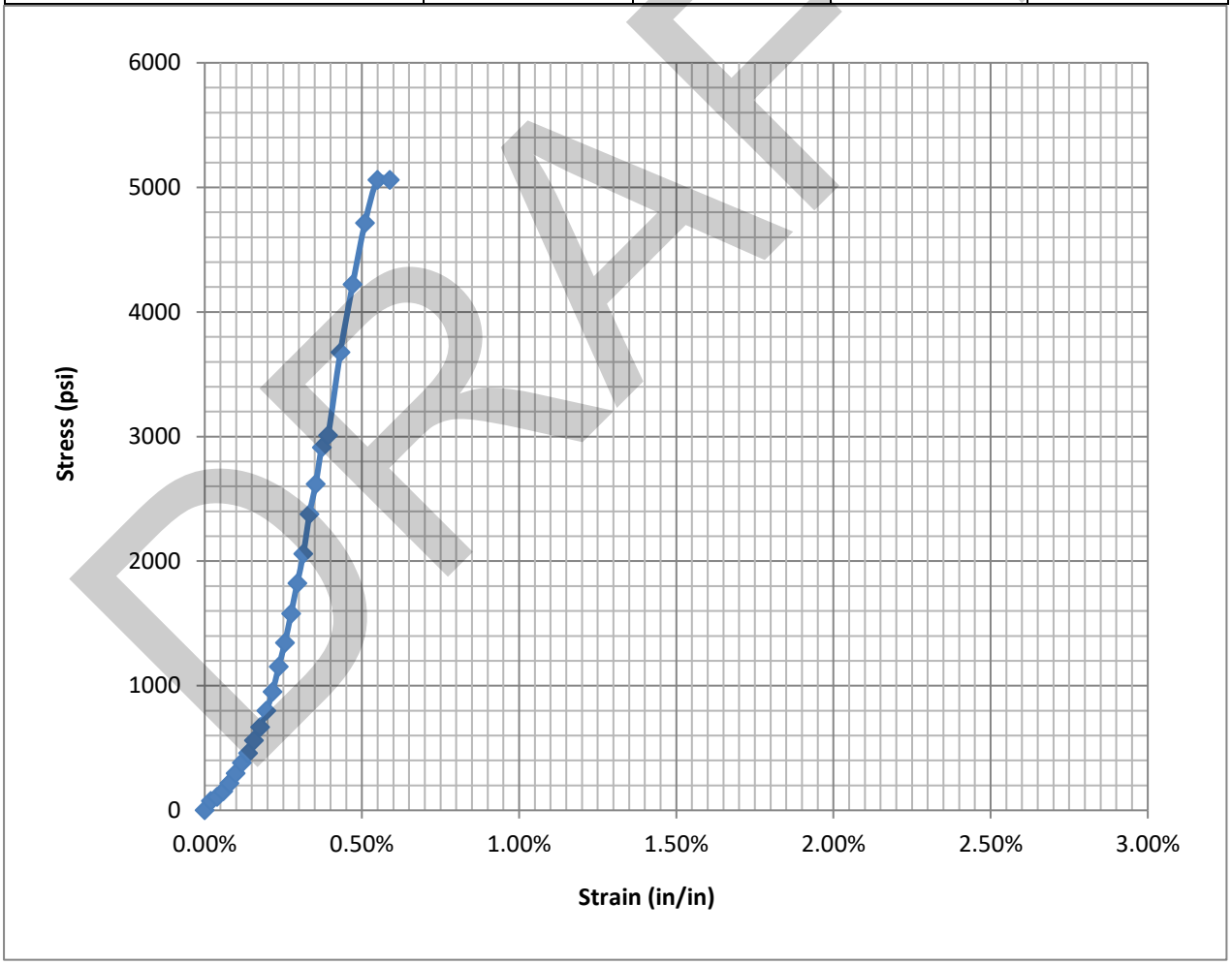
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-04, R2 @ 20.1 – 20.8 Ft.	2.38	5.10	186	5,061



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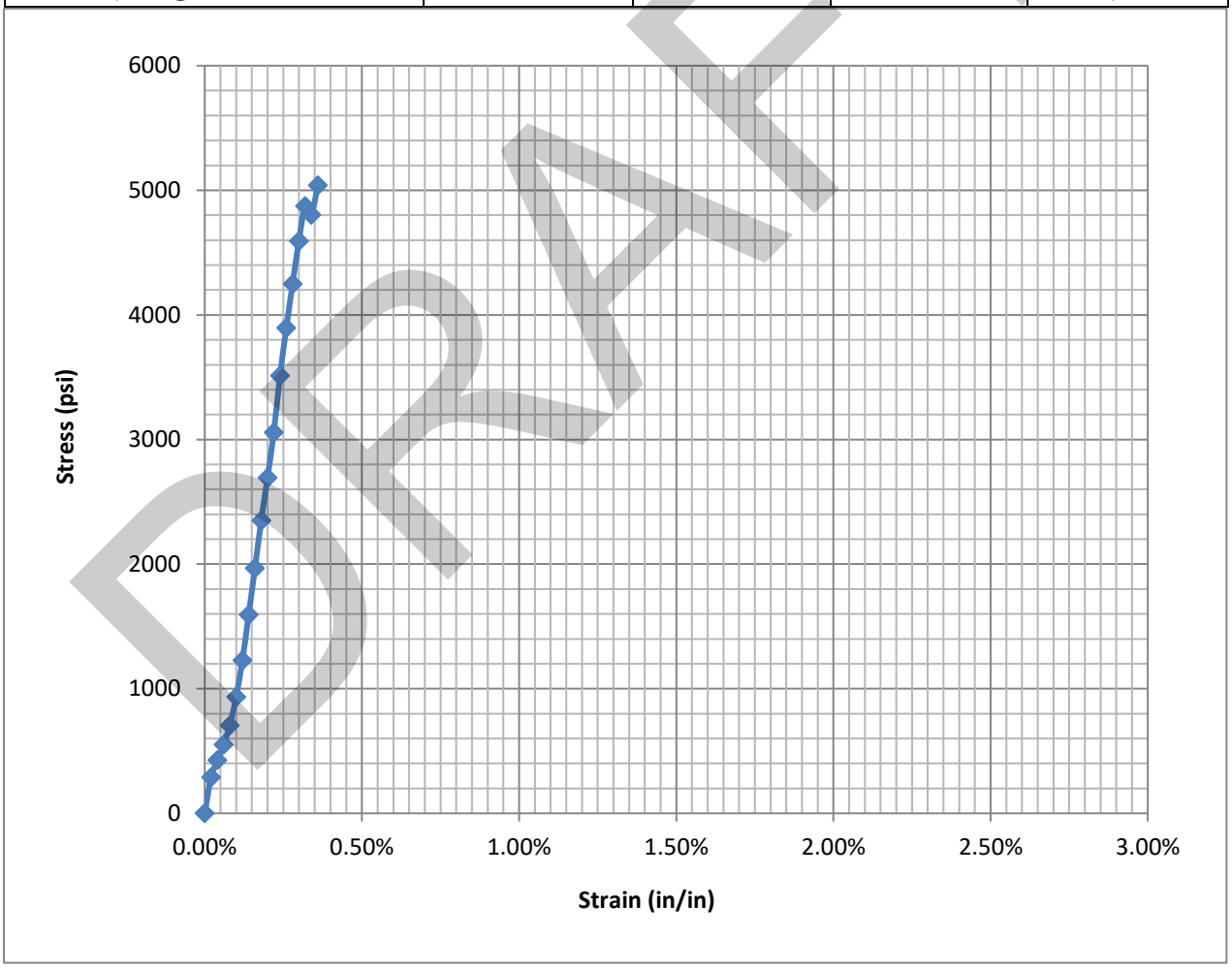
Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-05, R2 @ 12.2 – 12.8 Ft.	2.38	5.01	200	5,040



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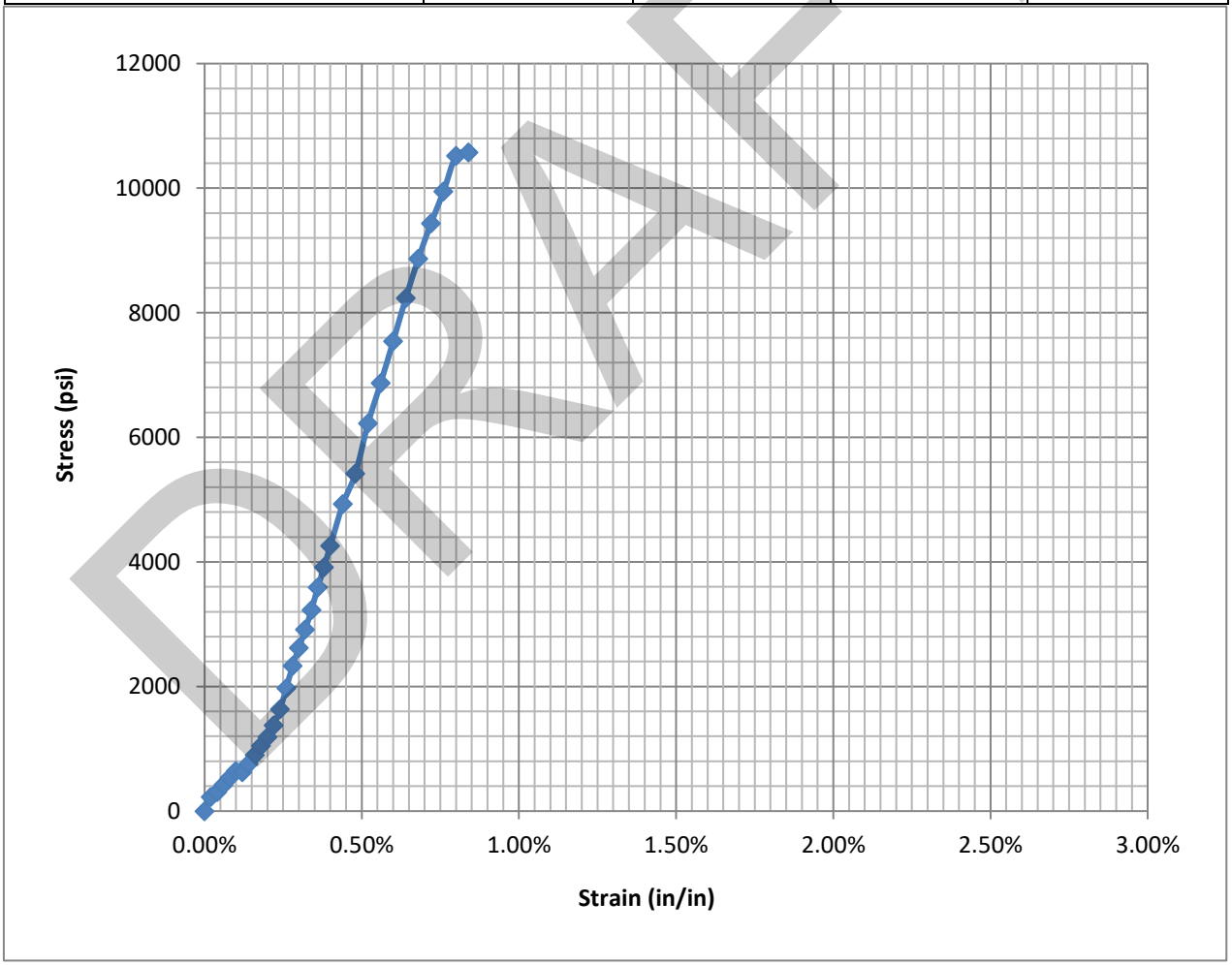
Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-05, R3 @ 16.6 – 17.2 Ft.	2.39	5.00	329	10,575



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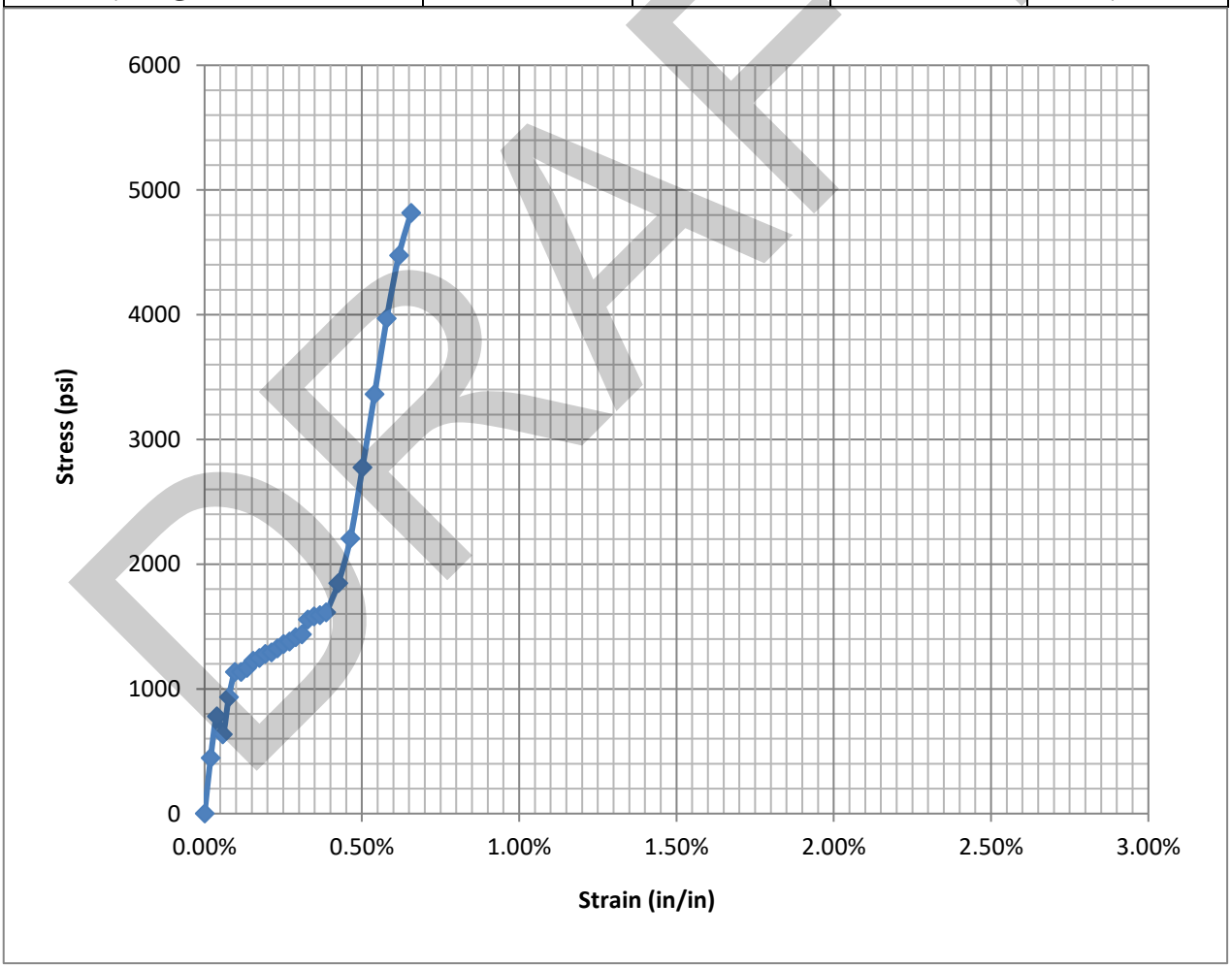
Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-05, R5 @ 26.1 – 26.9 Ft.	2.39	5.18	208	4,817



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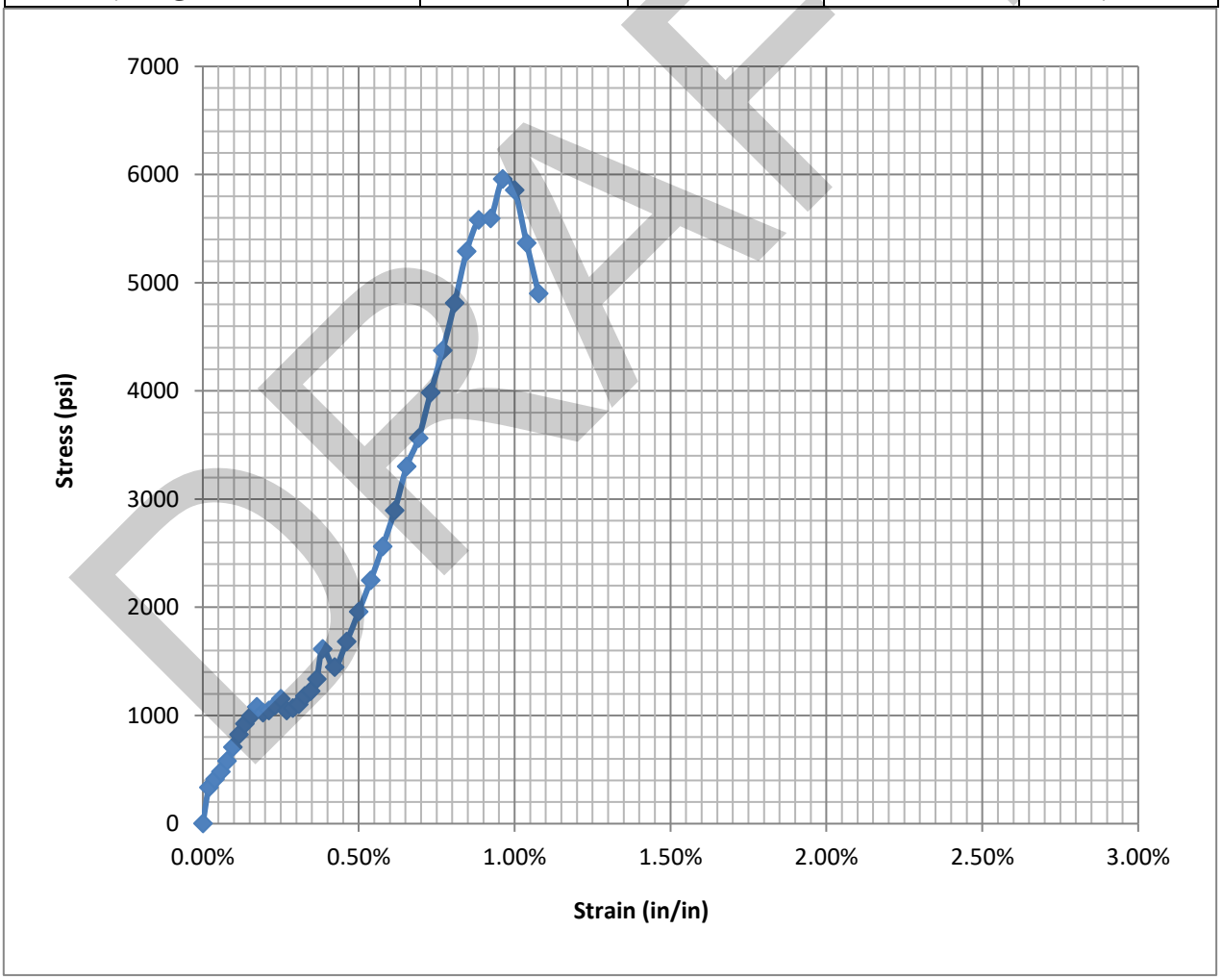
Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-06, R2 @ 14.1 – 14.9 Ft.	2.39	5.20	108	5,960



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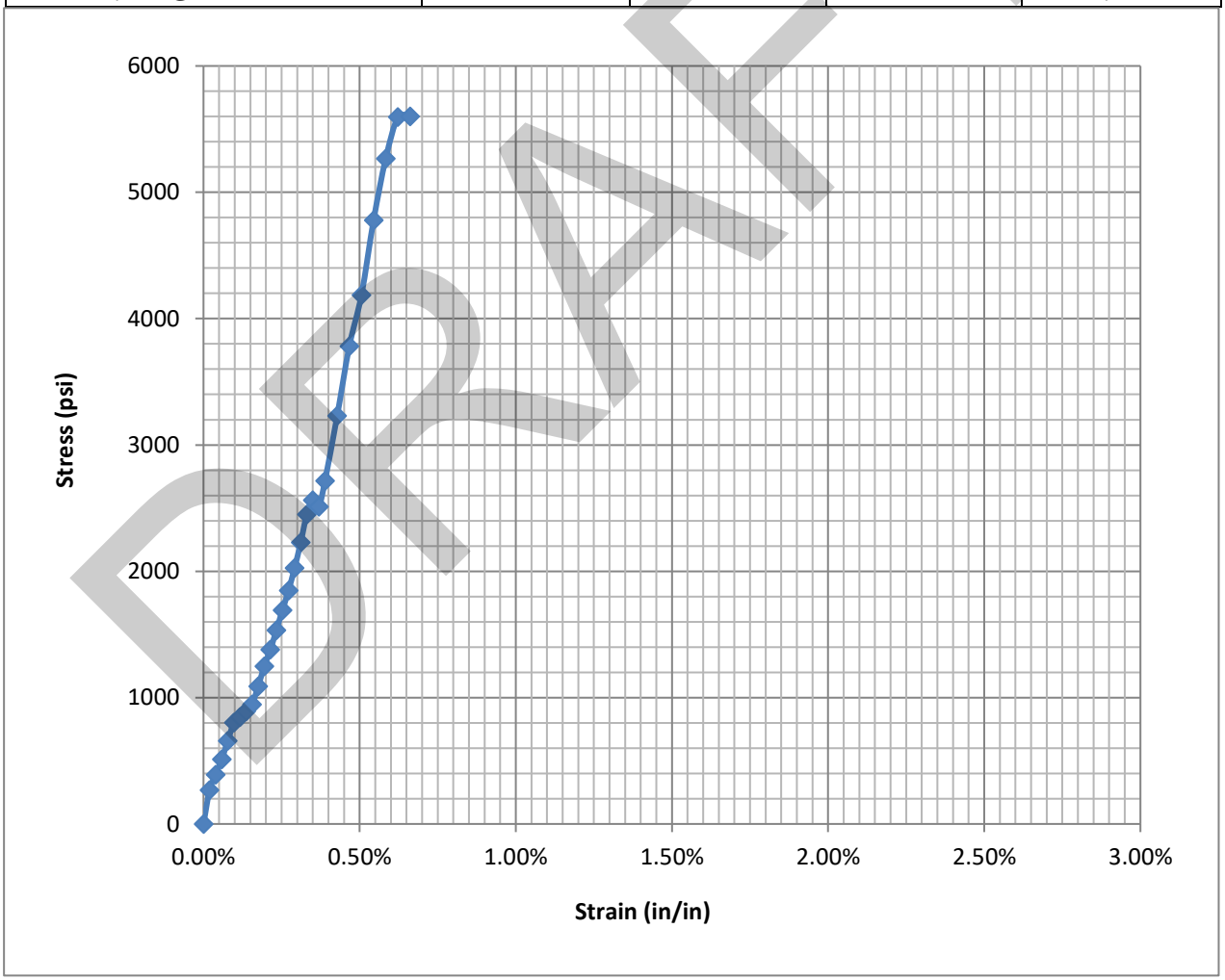
Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-06, R3 @ 20.4 – 21.0 Ft.	2.39	5.14	157	5,601



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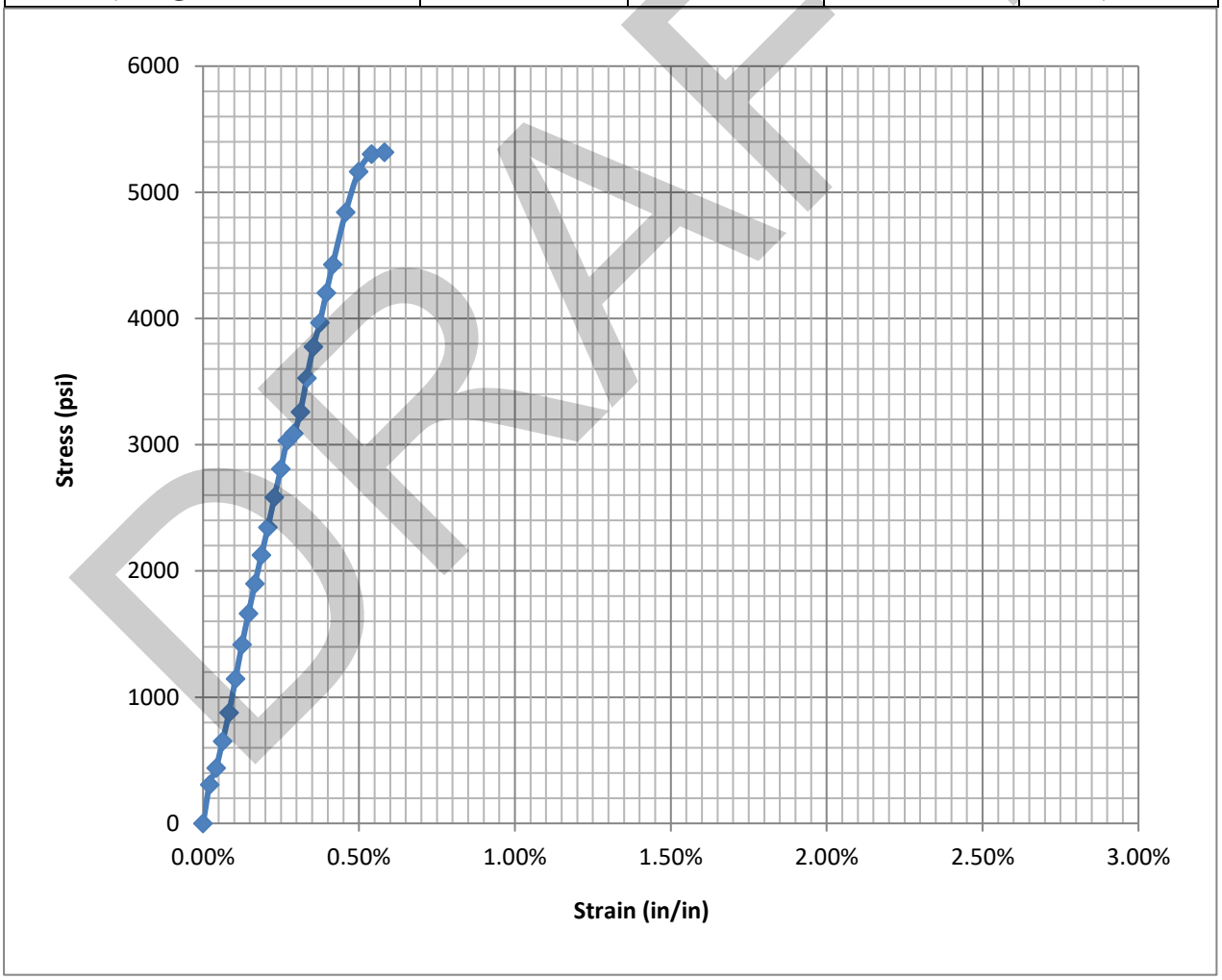
Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-07, R2 @ 12.6 – 13.1 Ft.	2.38	4.81	110	5,317



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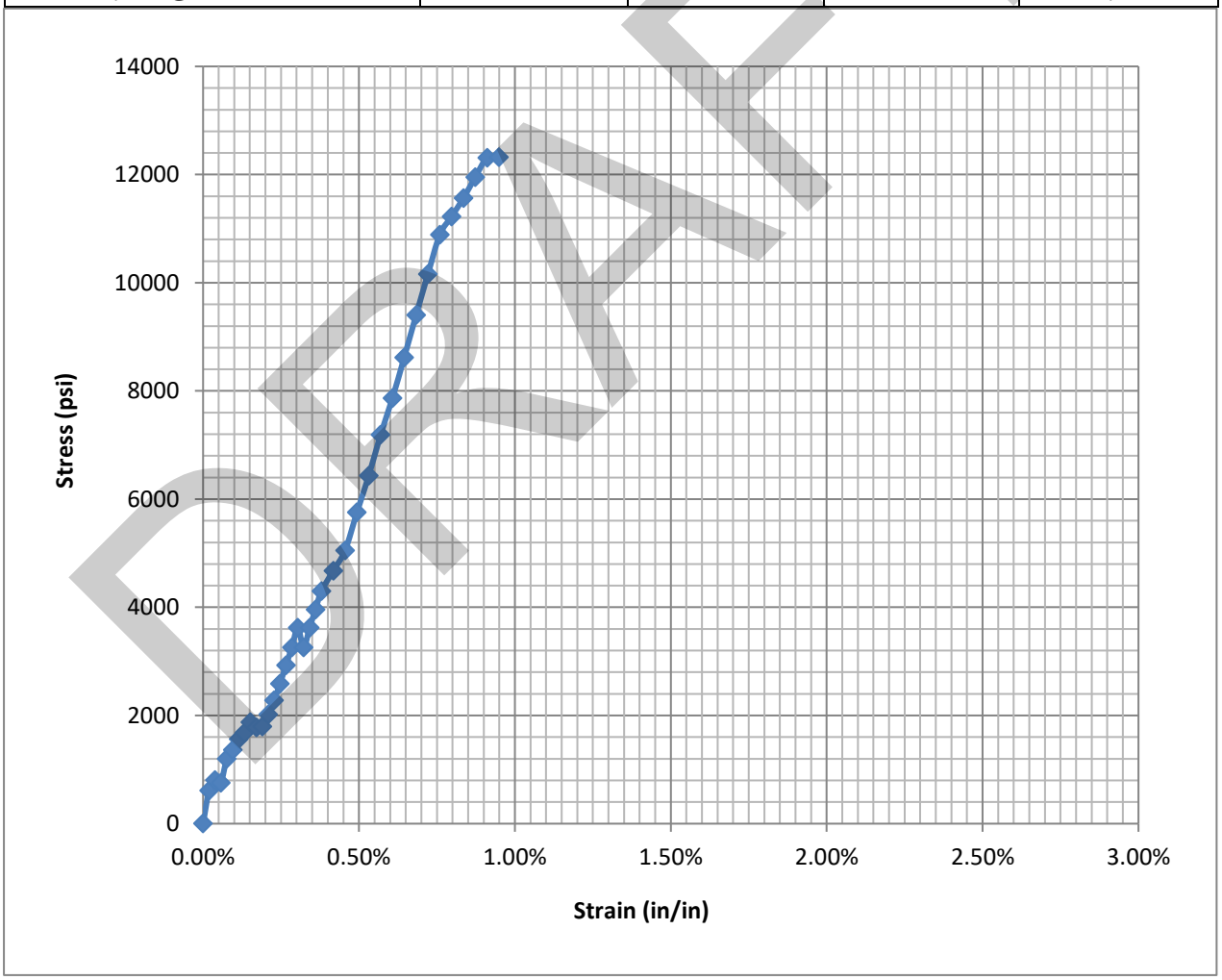
Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-07, R4 @ 21.0 – 21.6 Ft.	2.39	5.27	170	12,320



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TECHNICAL REPORT

Report To:	Ms. Veronica Biesiada Shannon & Wilson, Inc. 3990 SW Collins Way, Suite 203 Lake Oswego, Oregon 97035	**Date:** **Lab No.:**	1/23/2025 24-775
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1



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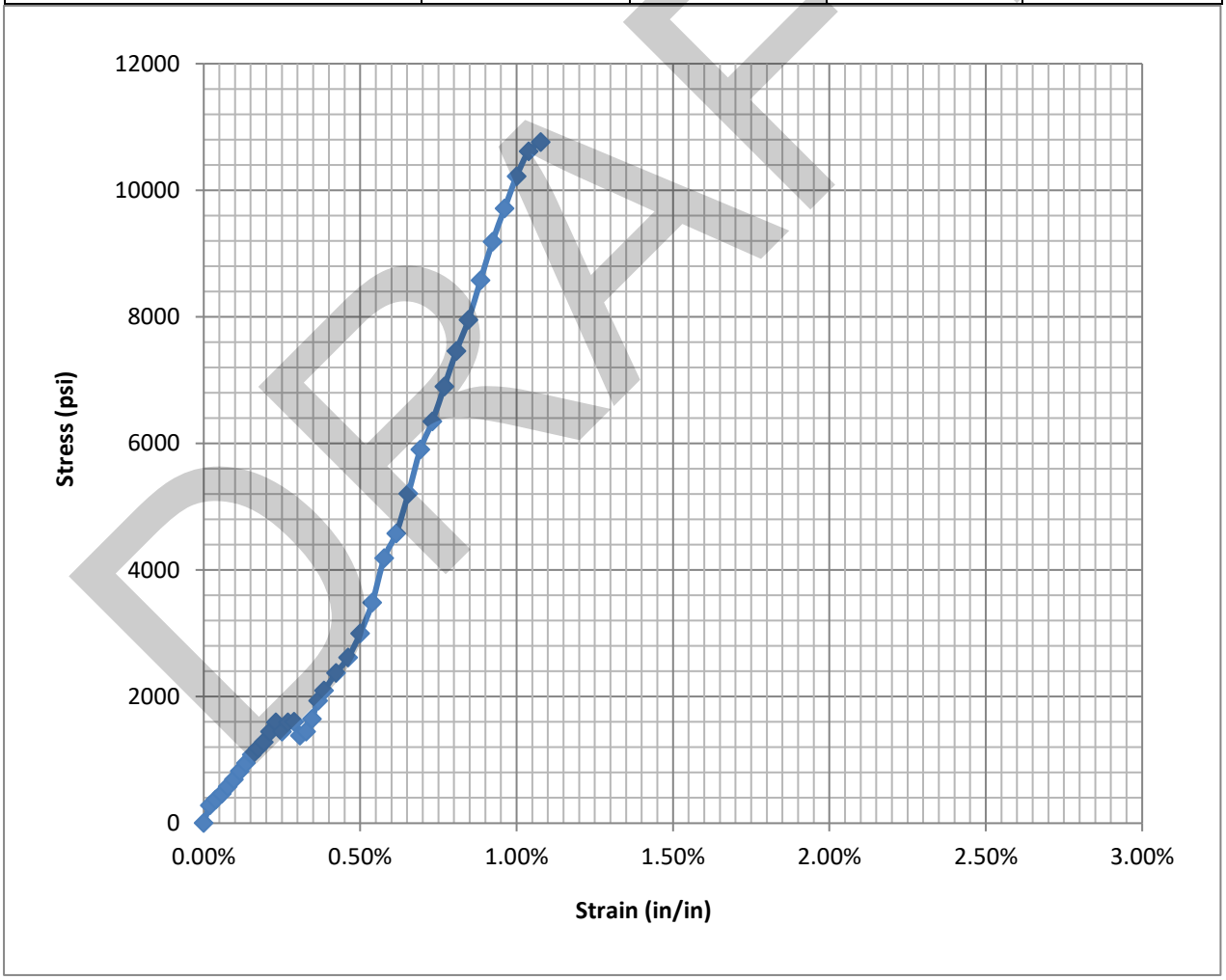
		Lab No.:	24-775
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-07, R6 @ 35.3 – 36.0 Ft.	2.39	5.20	174	10,759



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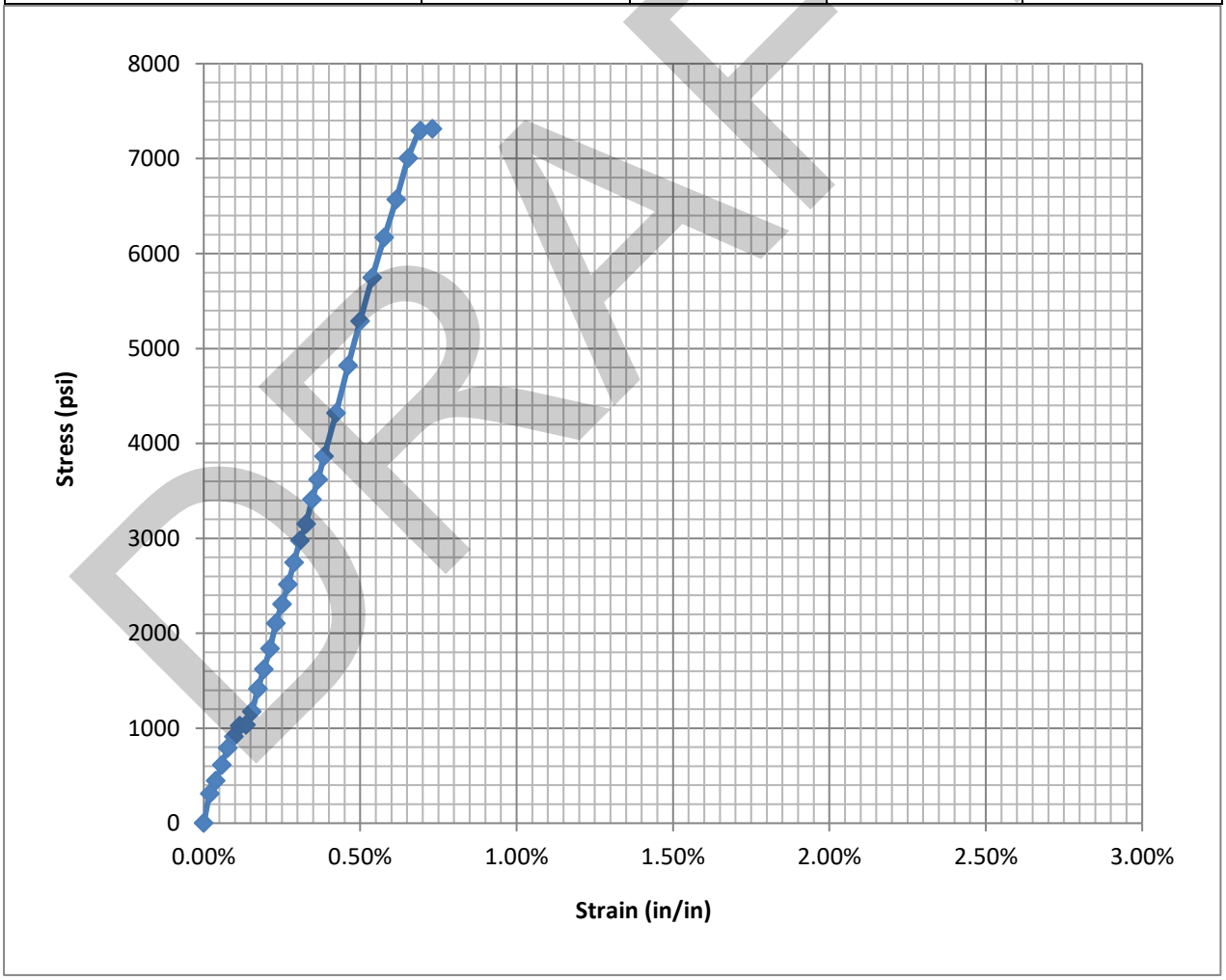
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-08, R2 @ 13.0 – 13.8 Ft.	2.39	5.20	163	7,314



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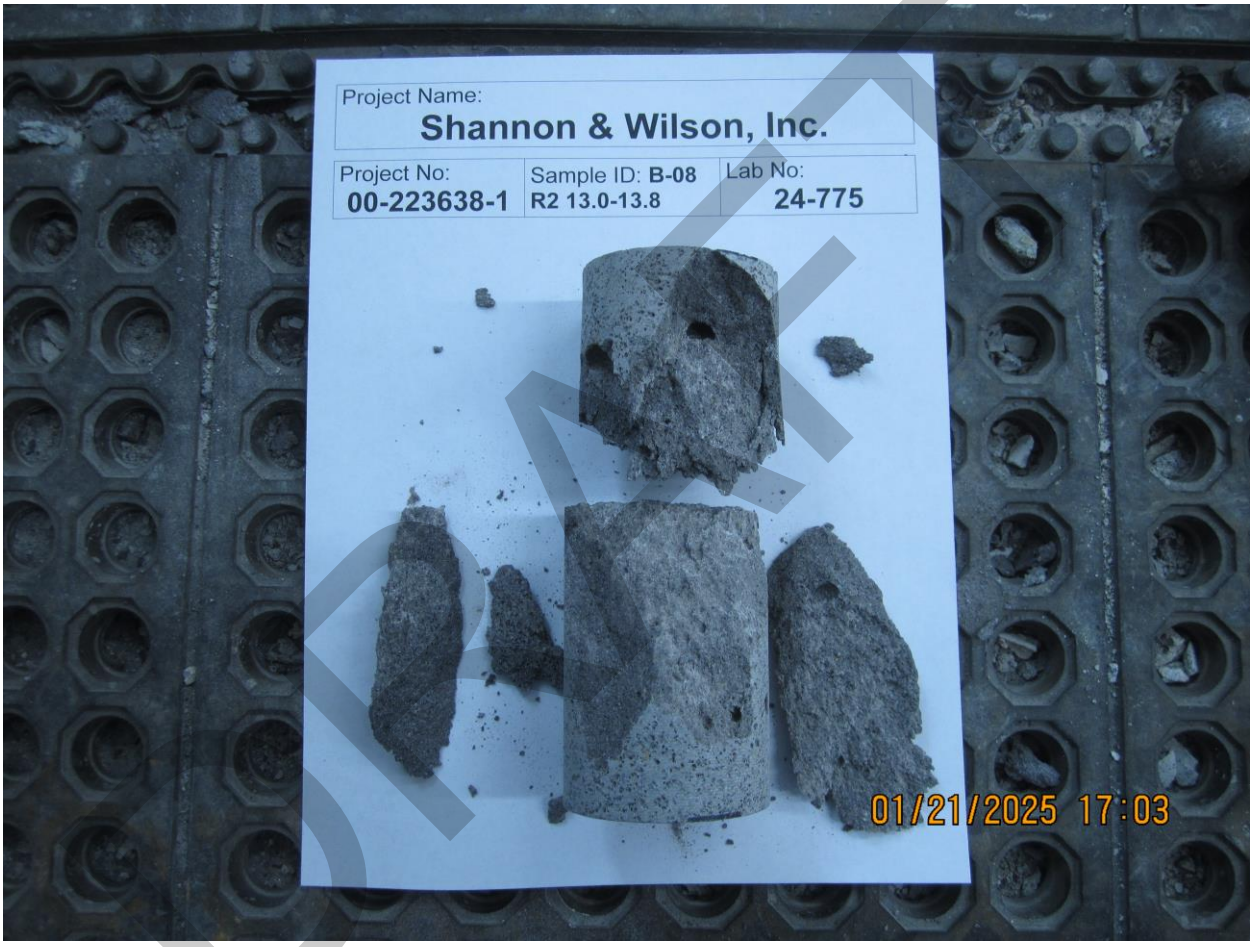

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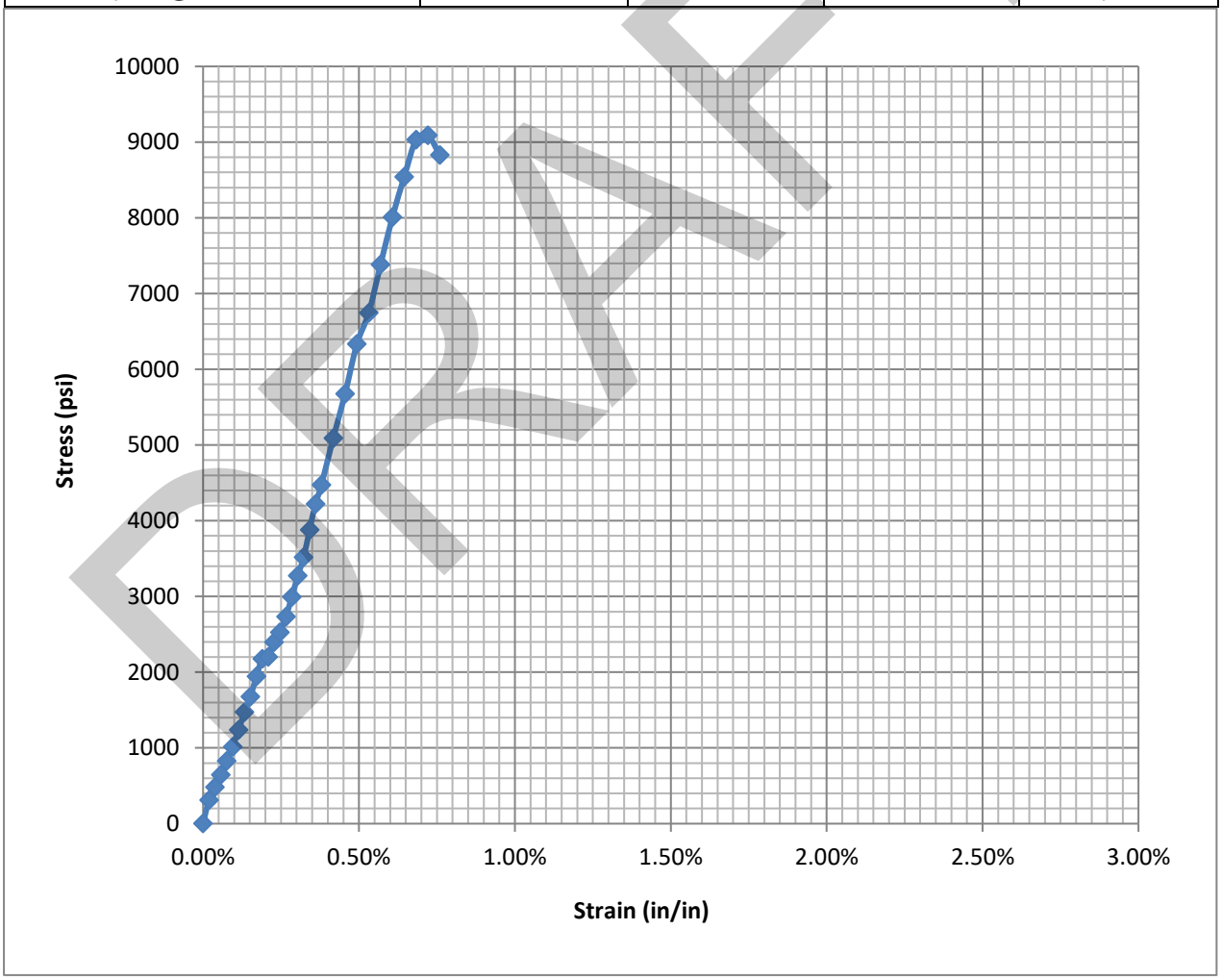
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-08, R3 @ 19.6 – 20.3 Ft.	2.39	5.27	227	9,089



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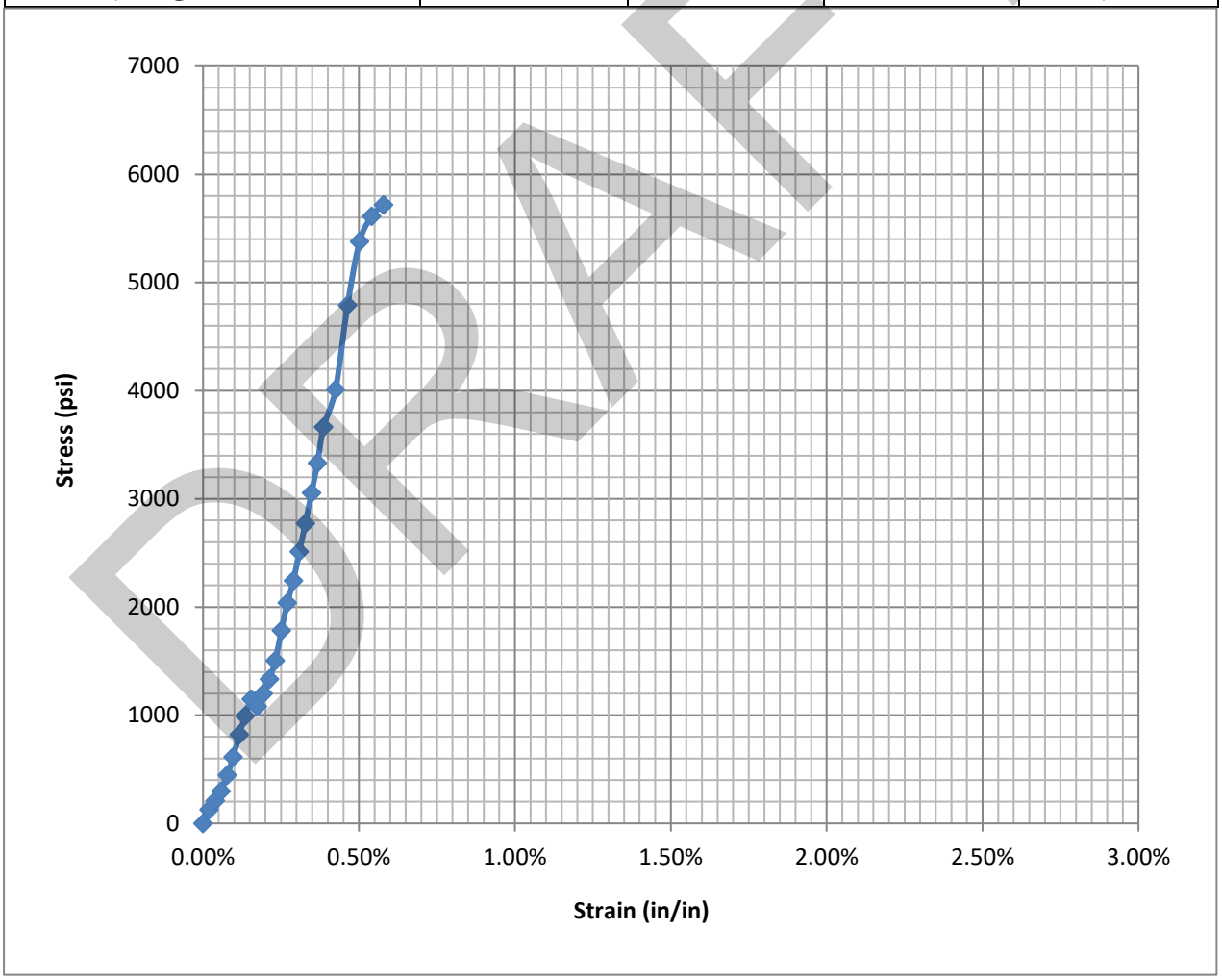
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-08, R5 @ 30.2 – 31.0 Ft.	2.39	5.18	205	5,717



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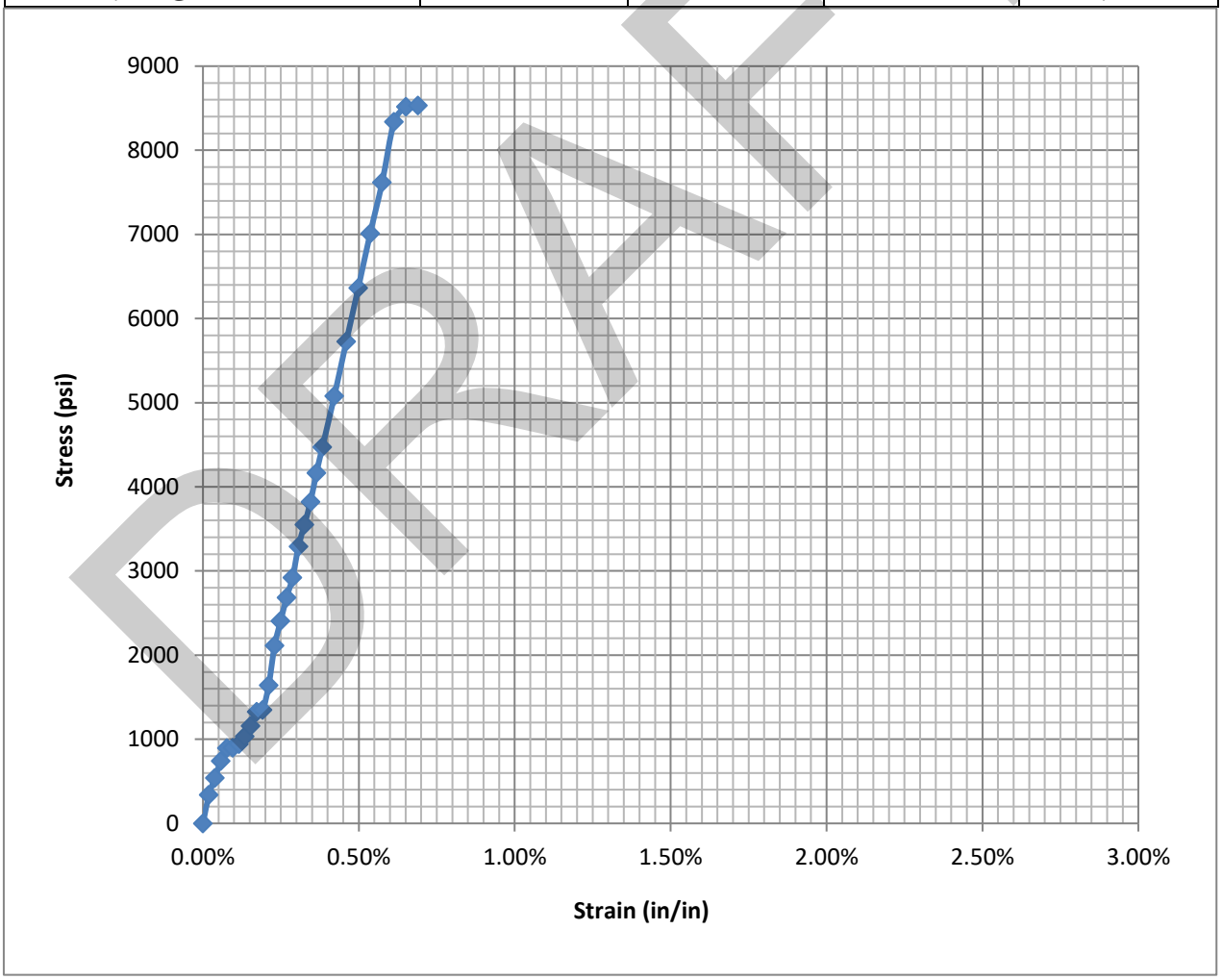
Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-09, R2 @ 17.0 – 17.6 Ft.	2.38	5.22	258	8,457



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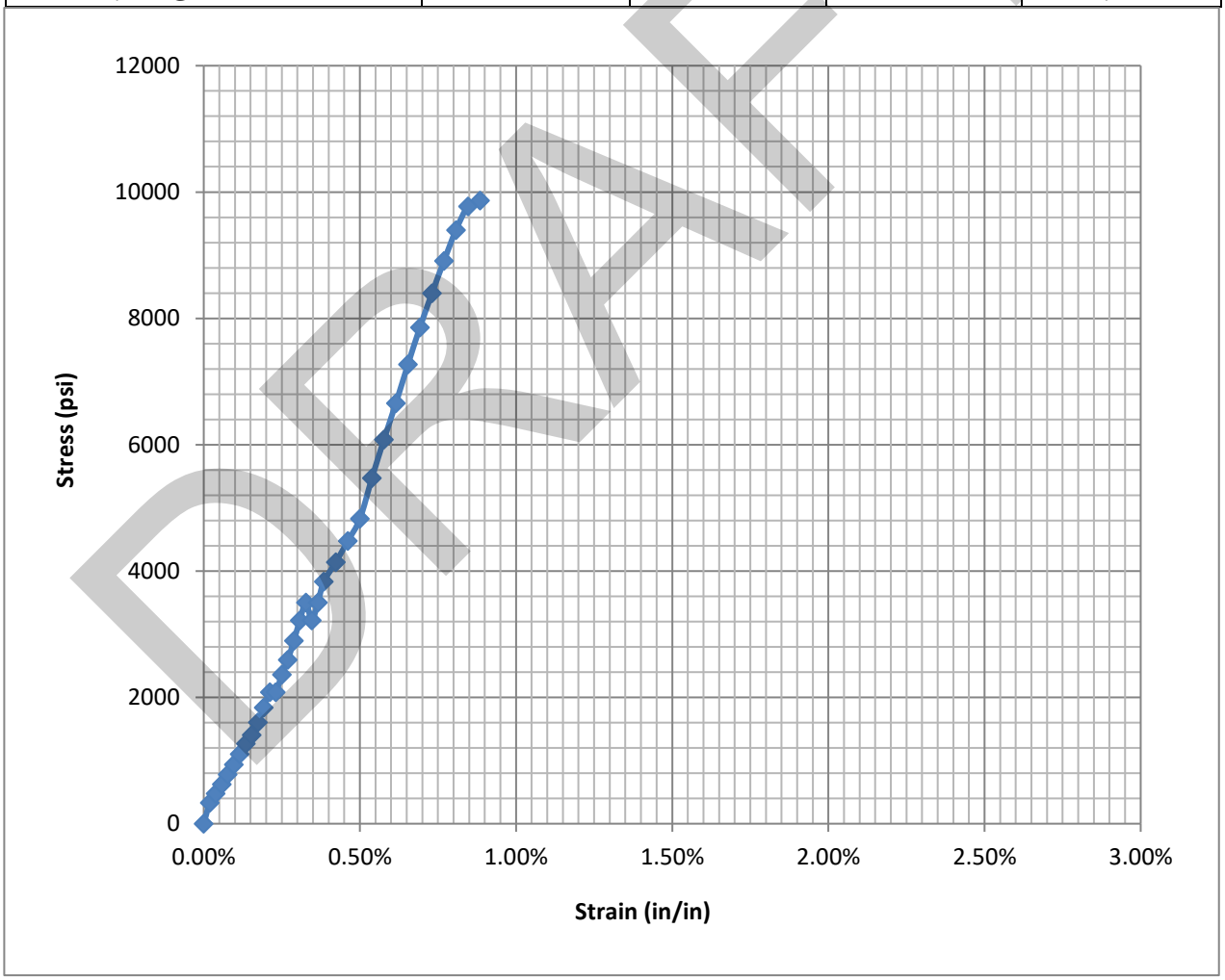
Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-10, R2 @ 17.0 – 17.8 Ft.	2.39	5.20	157	9,866



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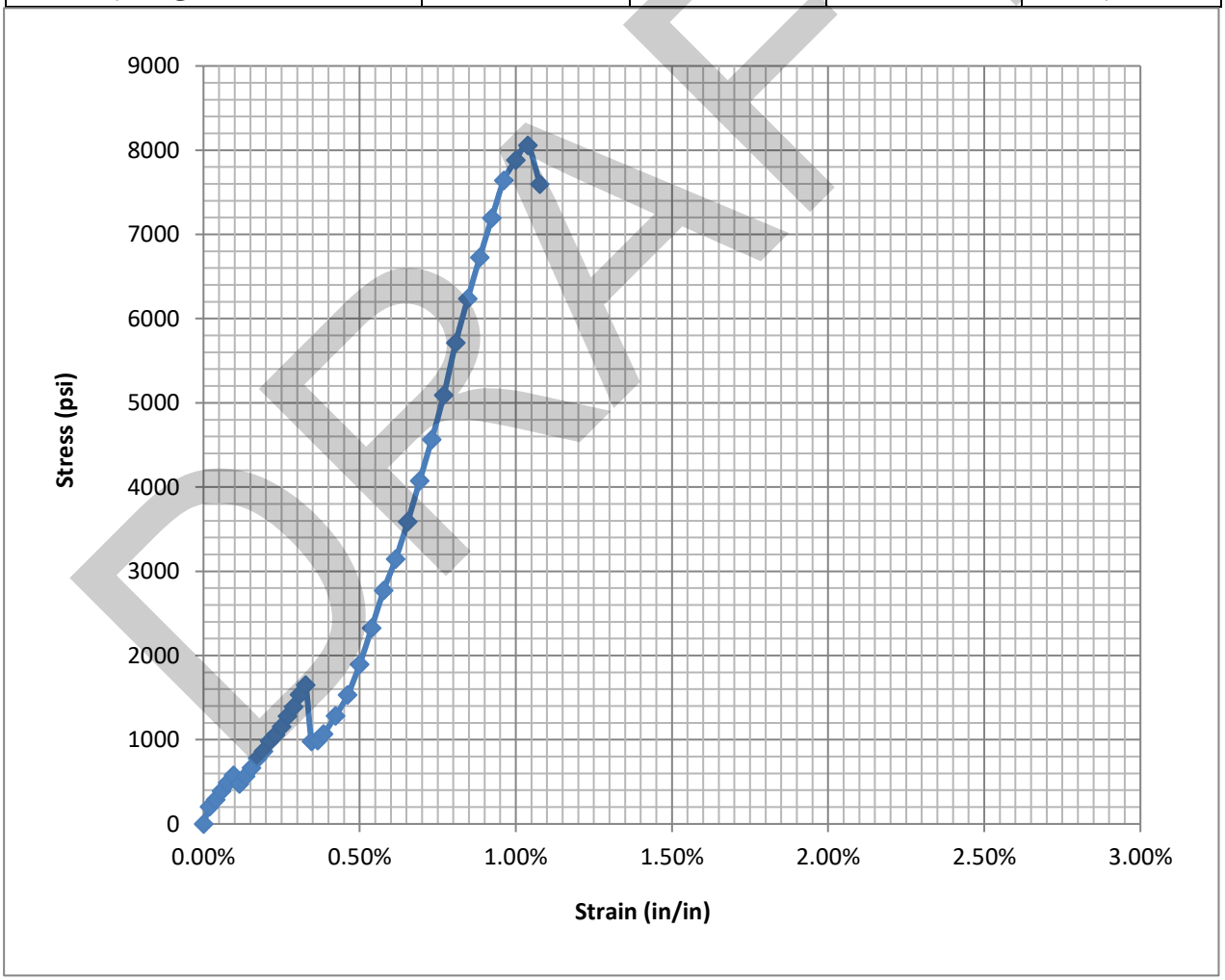
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-10, R3 @ 22.6 – 23.3 Ft.	2.39	5.20	109	8,056



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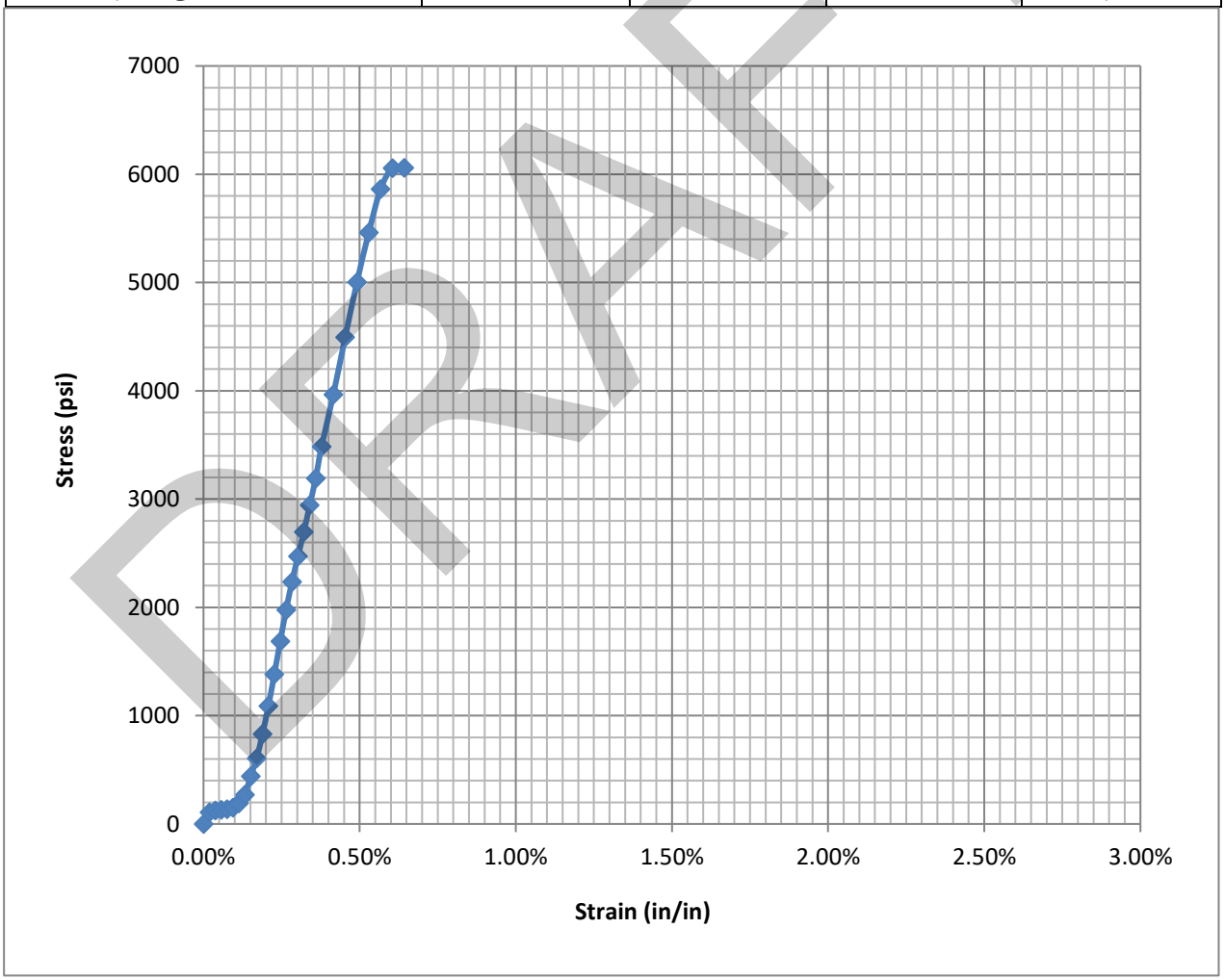
Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-11, R2 @ 11.0 – 11.6 Ft.	2.38	5.29	169	6,058



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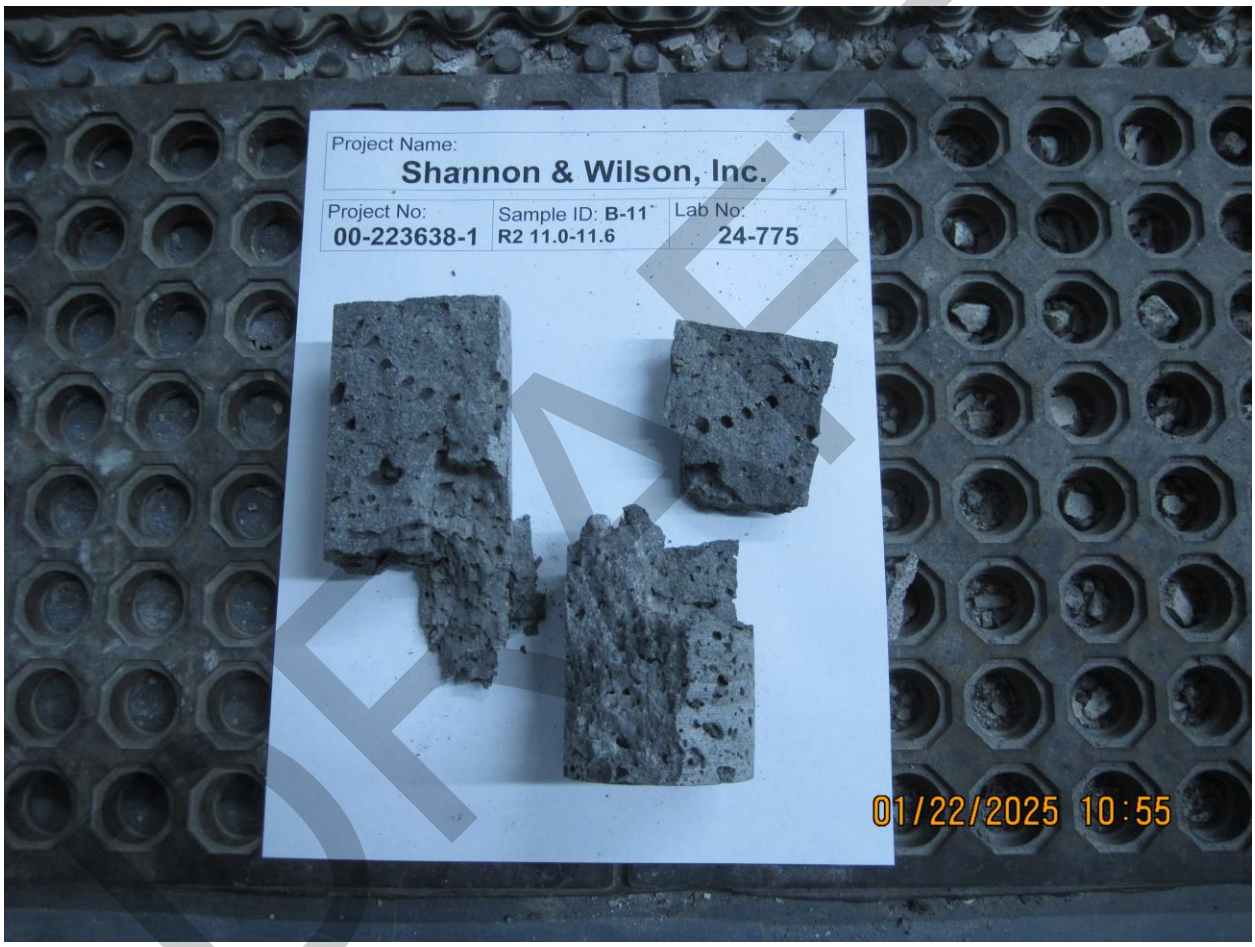

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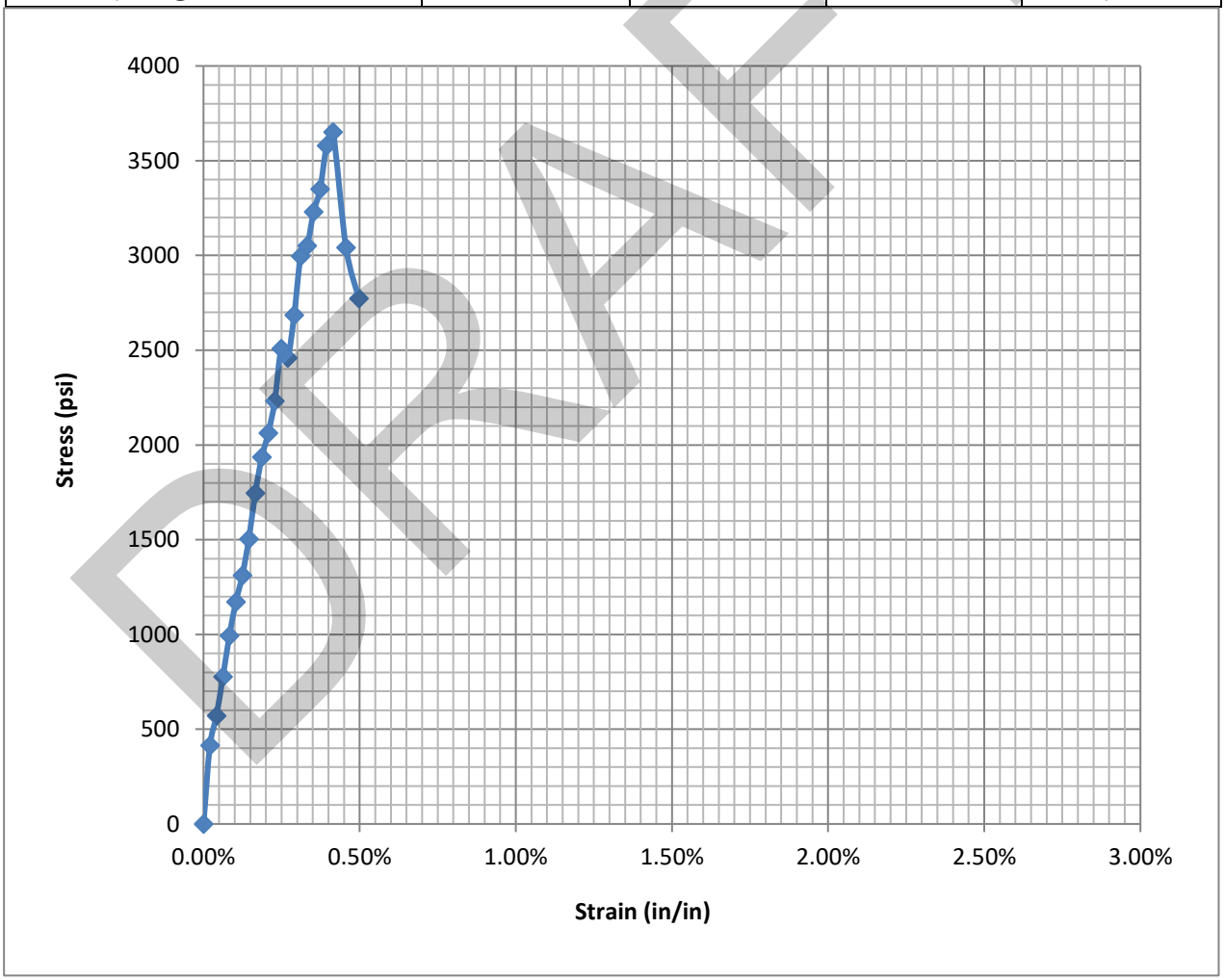
Lab No.: 24-775

Project: Reed Market Rd (No. 113462)

Project No.: 00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-12, R1 @ 12.1 – 12.8 Ft.	2.39	5.30	159	3,650



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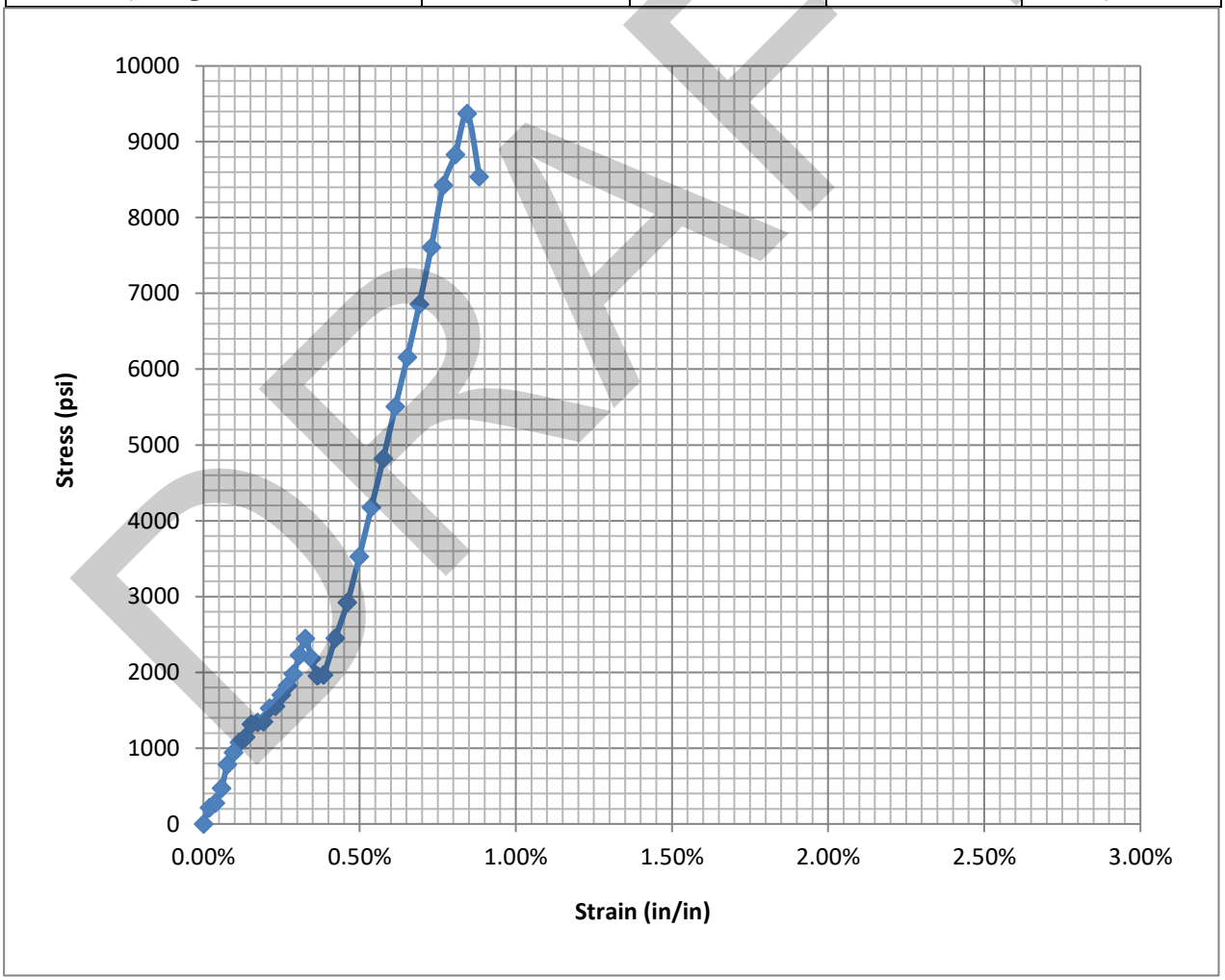
Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-13, R2 @ 7.7 – 8.4 Ft.	2.38	5.21	242	9,371



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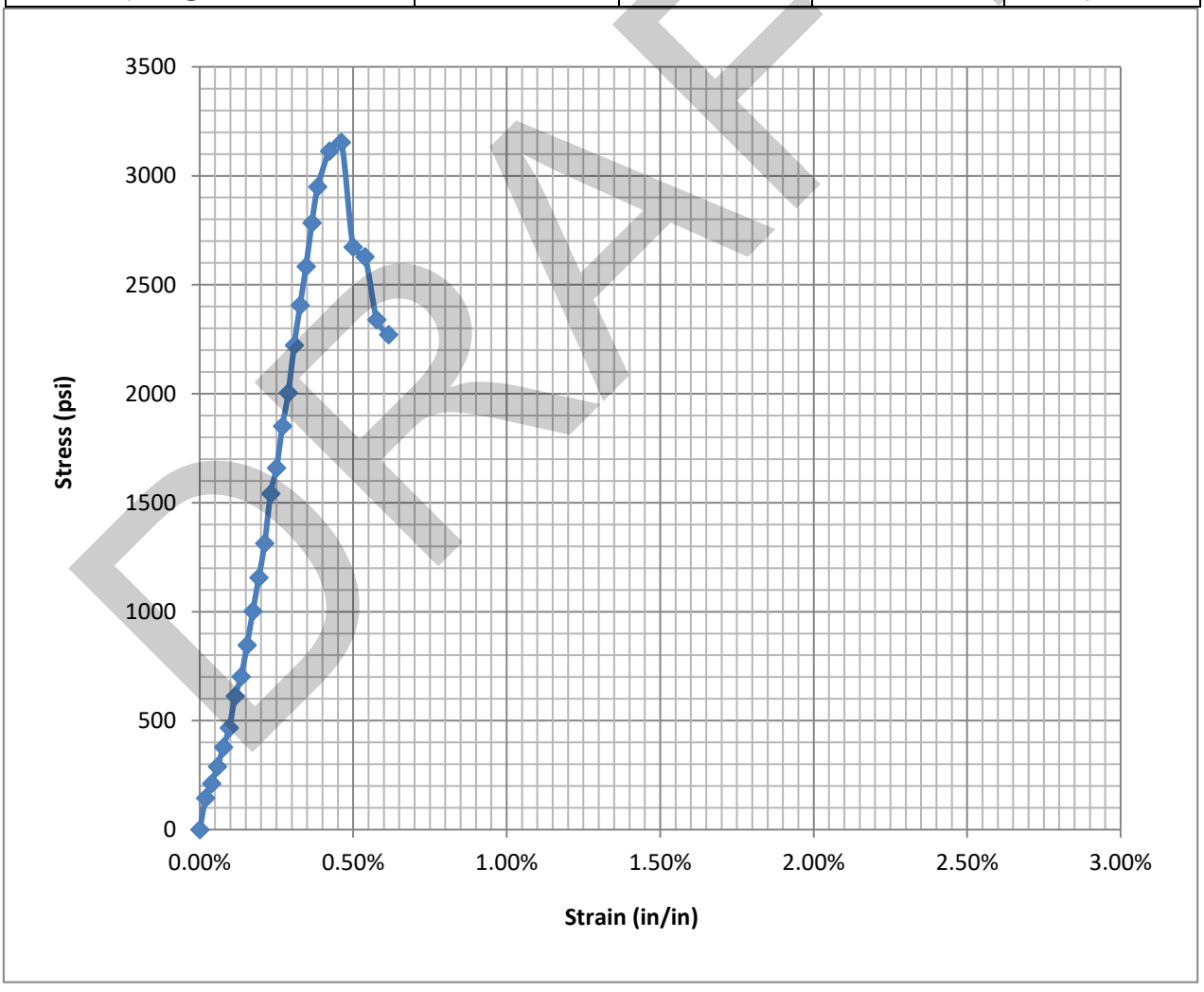
Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-14, R2 @ 6.0 – 6.7 Ft.	2.39	5.20	139	3,154



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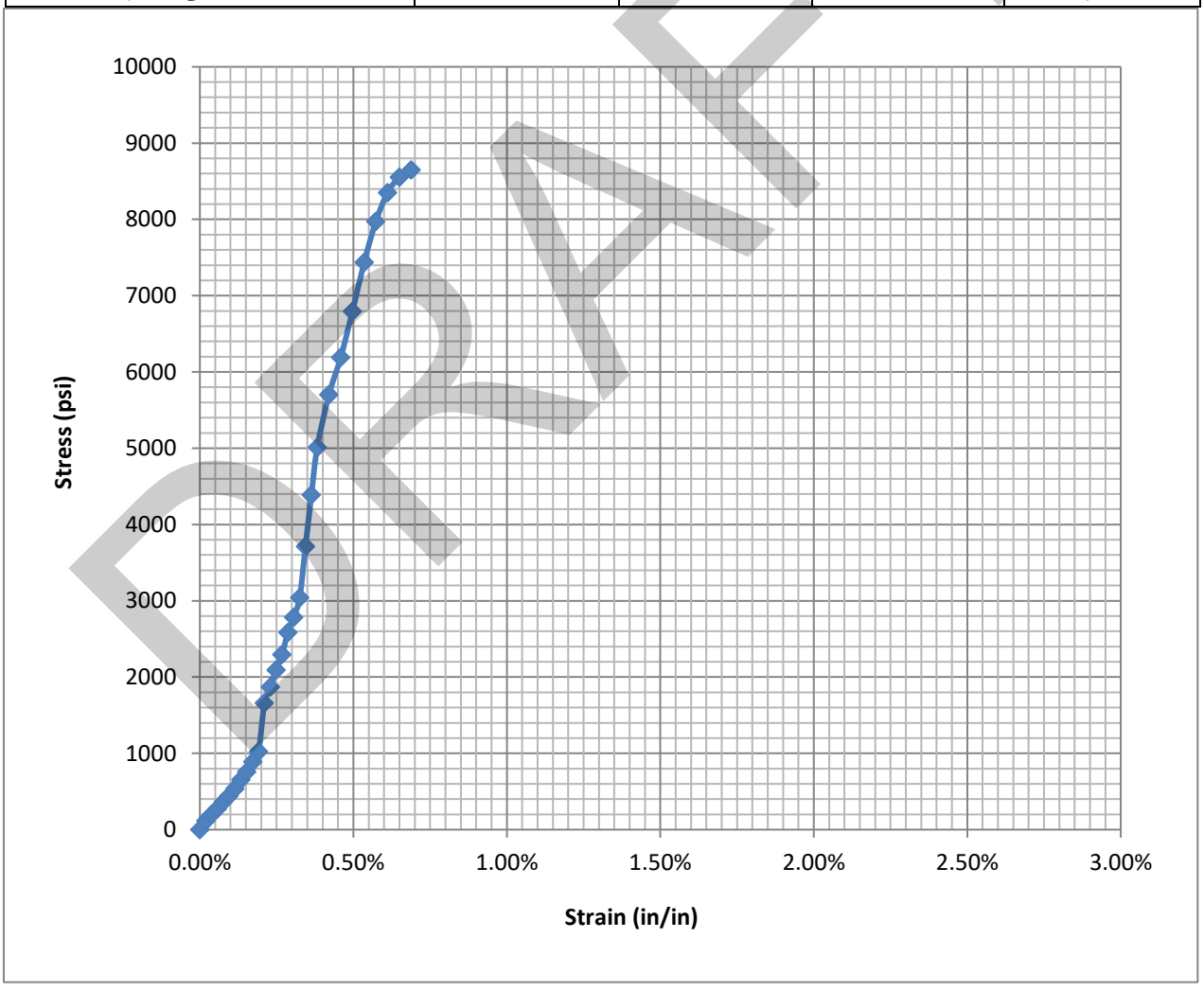
Project: Reed Market Rd (No. 113462)

Project No.: 00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-15, R2 @ 9.1 – 9.8 Ft.	2.39	5.23	290	8,648



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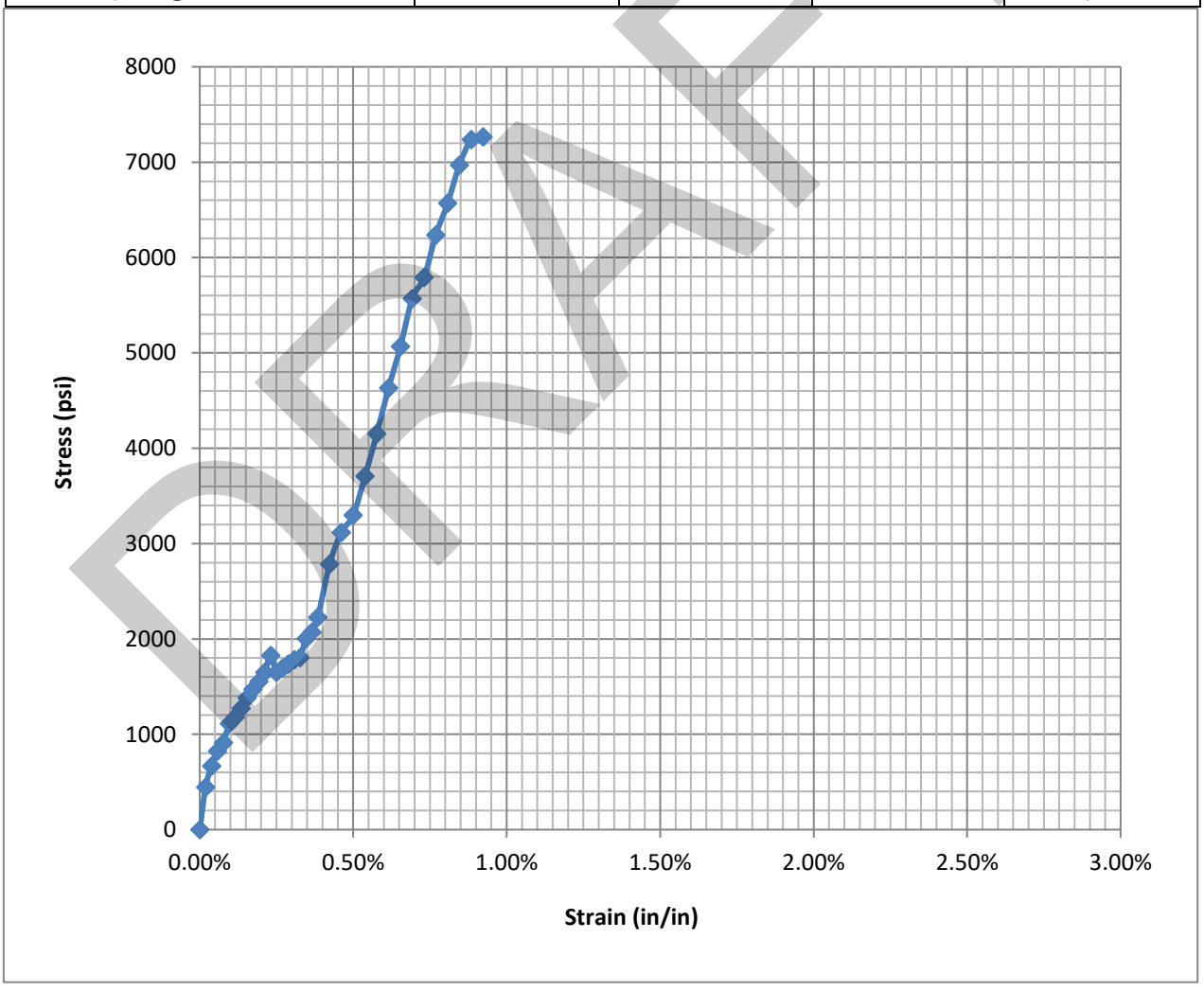
Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-15, R5 @ 21.5 – 22.2 Ft.	2.39	5.20	247	7,265



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Northwest Geotech, Inc.
An RMA Company
9120 SW Pioneer Court, Suite B, Wilsonville, Oregon 97070 | ph: 503.682.1880 fax: 503.682.2753 | www.nwgeotech.com

TECHNICAL REPORT

Report To:	Ms. Veronica Biesiada Shannon & Wilson, Inc. 3990 SW Collins Way, Suite 203 Lake Oswego, Oregon 97035	**Date:** **Lab No.:**	1/23/2025 24-775
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1



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TECHNICAL REPORT

Report To: Ms. Veronica Biesiada
Shannon & Wilson, Inc.
3990 SW Collins Way, Suite 203
Lake Oswego, Oregon 97035

Date: 1/23/2025

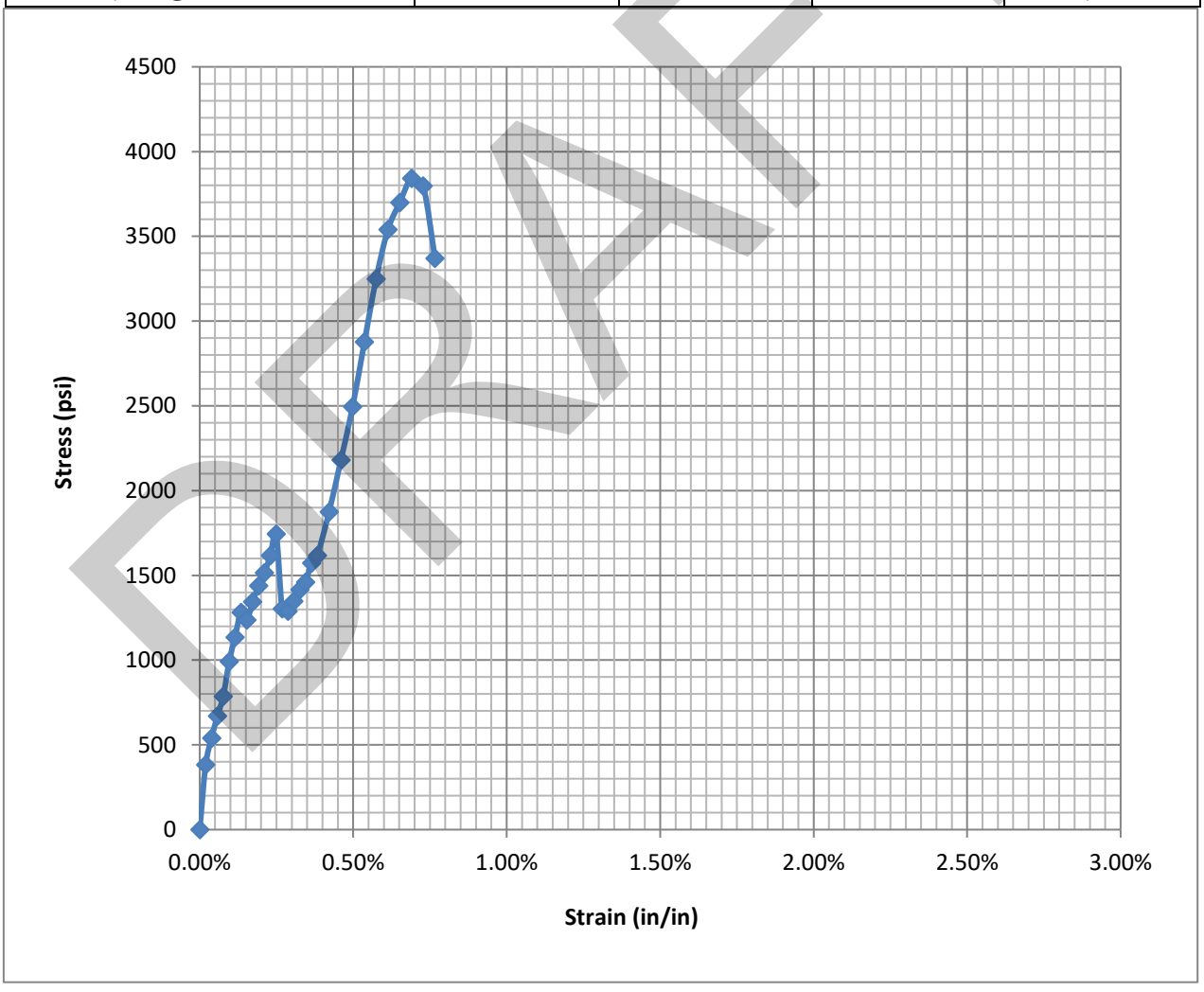
Lab No.: 24-775

Project: Reed Market Rd (No. 113462)

Project No.: 00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-16, R2 @ 22.2 – 22.8 Ft.	2.38	5.22	160	3,843



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Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1



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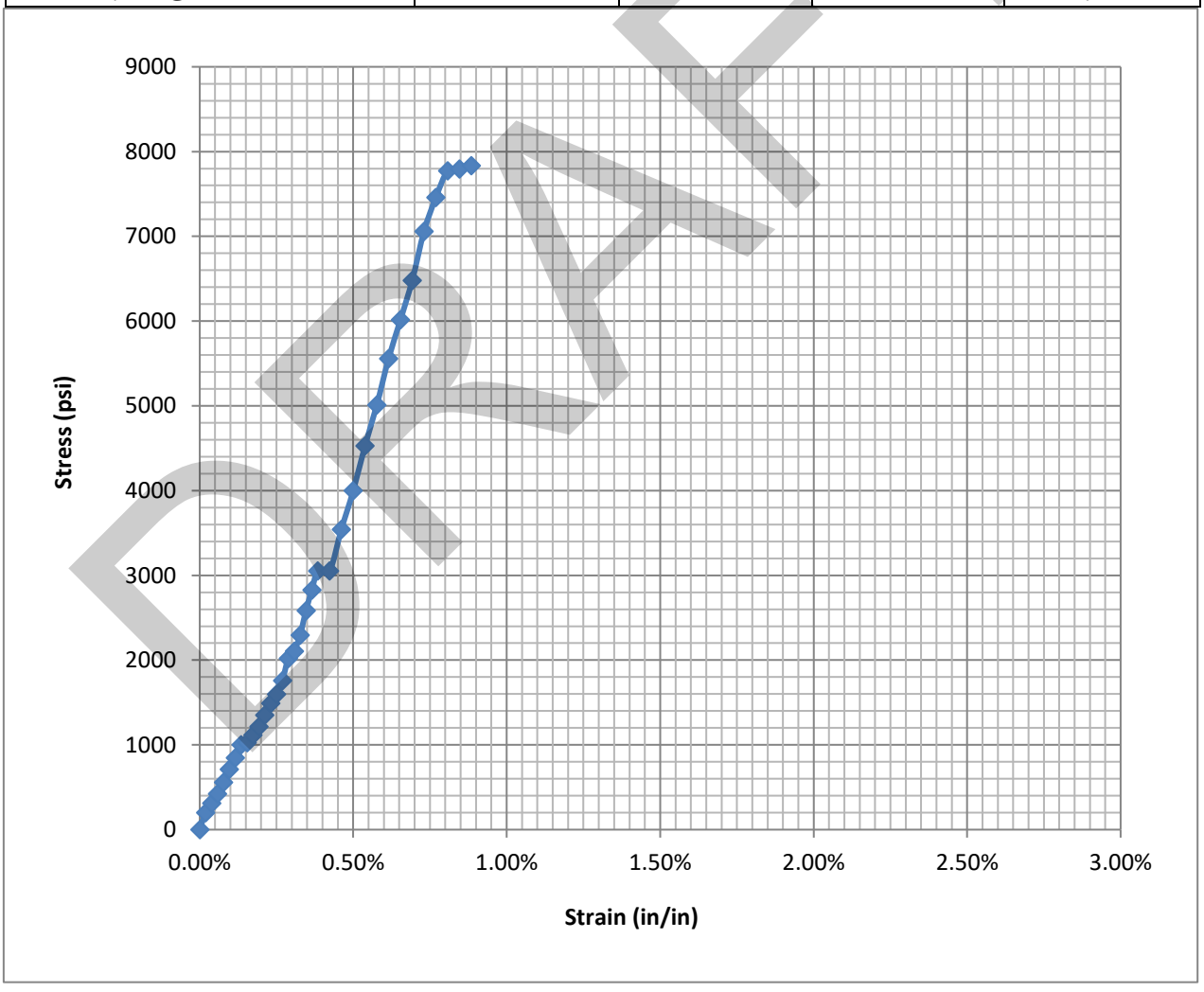
		Lab No.:	24-775
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-16, R3 @ 27.1 – 27.7 Ft.	2.39	5.20	271	7,835



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Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1



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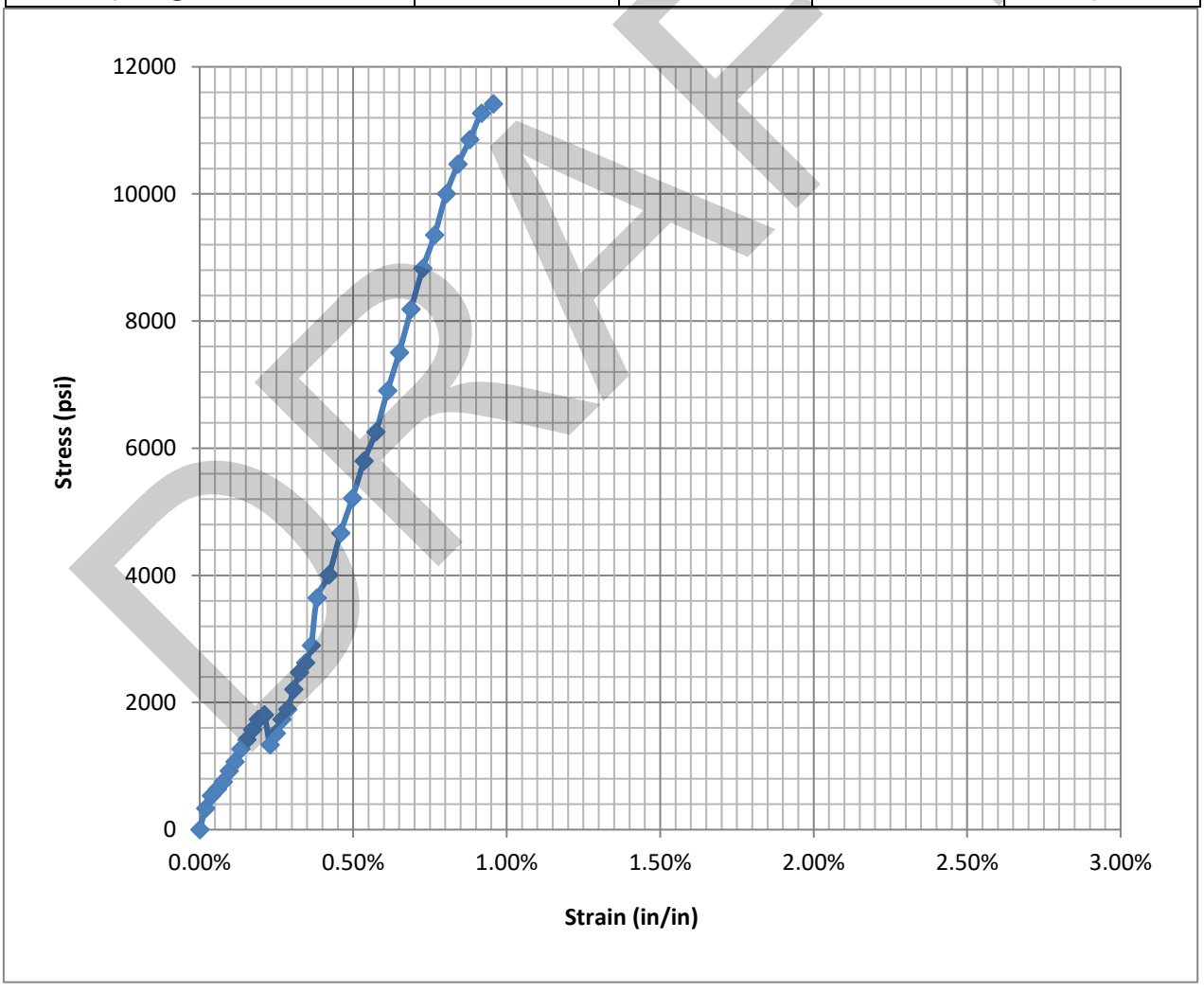
		Lab No.:	24-775
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-17, R1 @ 10.3 – 11.0 Ft.	2.39	5.23	355	11,419



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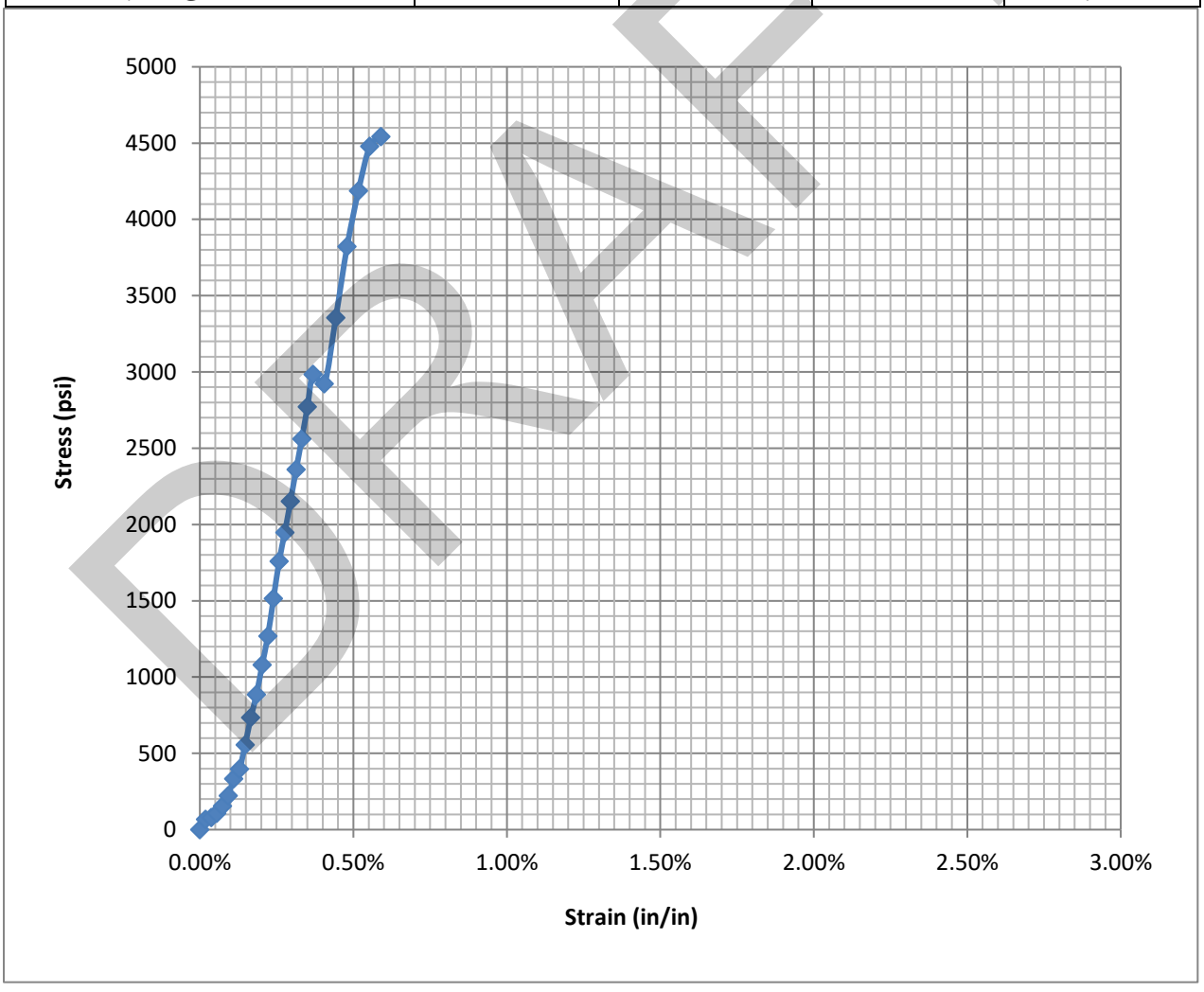
		Lab No.:	24-775
Project:	Reed Market Rd (No. 113462)	**Project No.:**	00-223638-1

Compressive Strength of Intact Rock Core Specimens (ASTM D7012 Method C)

Sample ID	Diameter (inches)	Height (inches)	Rate of Loading (lbs/s)	Uniaxial Compressive Strength (psi)
B-18, R1 @ 4.0 – 4.5 Ft.	2.39	5.42	227	4,543



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APPENDIX C: GLOBAL STABILITY ANALYSIS RESULTS

Appendix C

Global Stability Analysis Results

Subtitle if Applicable

CONTENTS

- Figures C1-C14 Global Stability Analysis Results

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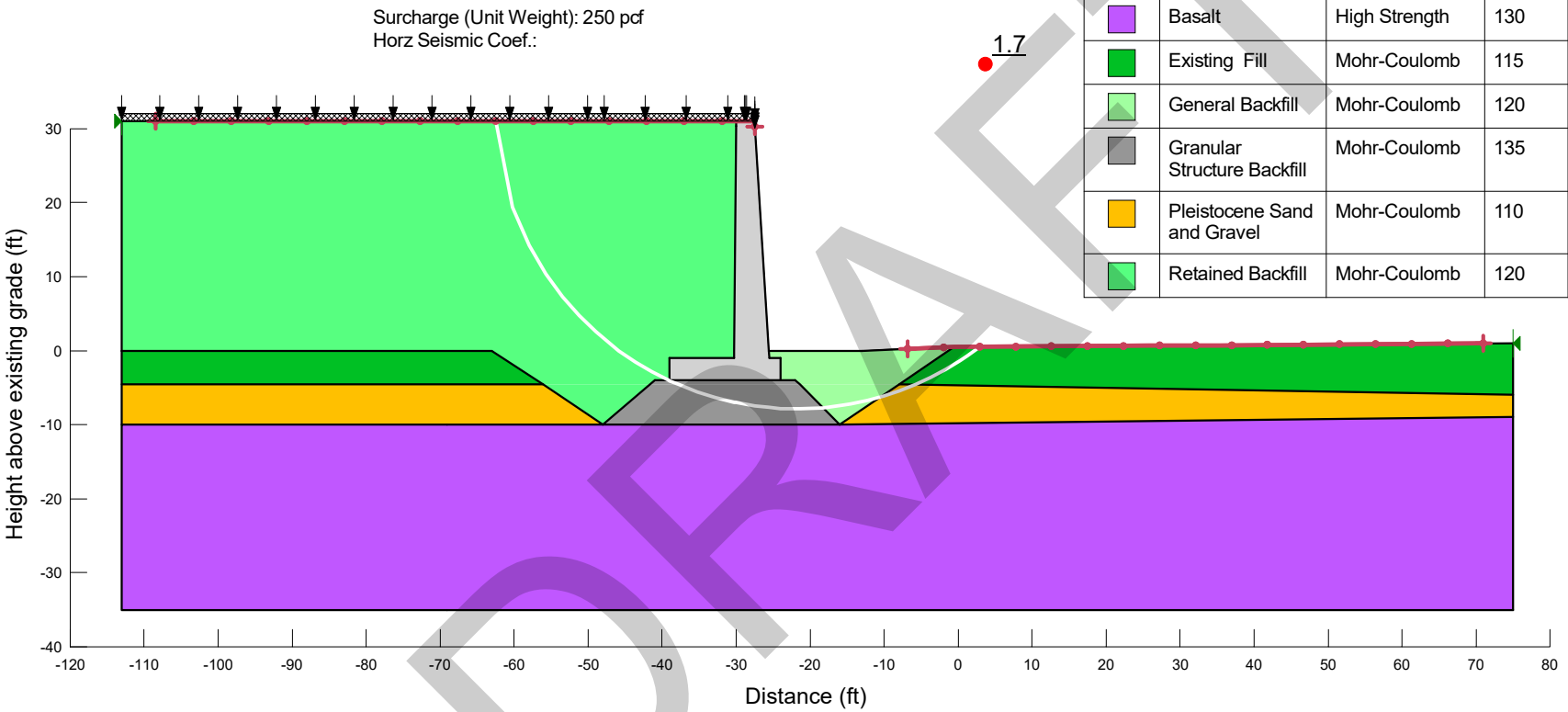

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Abutment	High Strength	150		
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	General Backfill	Mohr-Coulomb	120	0	32
	Granular Structure Backfill	Mohr-Coulomb	135	0	36
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32

NOTES

1. Critical failure surface estimated using the entry and exit search criteria and the Morgenstern-Price analysis method.
2. Analysis only assumes static conditions. No seismic forces are included.
3. Analysis assumes 250 psf surcharge loading.

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Reed Market Corridor Study
Bend, Oregon

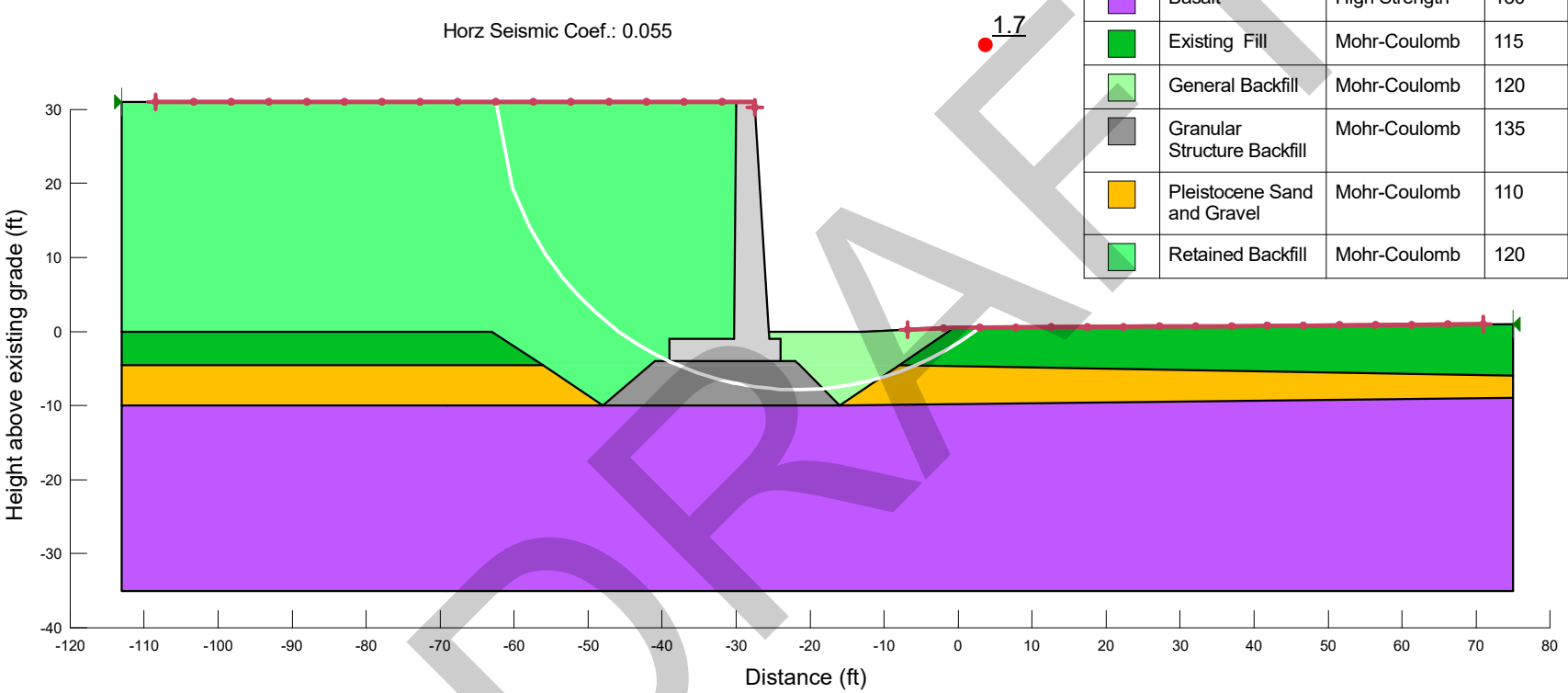
GLOBAL STABILITY ANALYSIS
ABUTMENT
STATIC CONDITIONS

May 2025 113462

SHANNON & WILSON

FIG. C1

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed MarketAnalysis\Global Stability\global stability 040425.gsz



Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Abutment	High Strength	150		
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	General Backfill	Mohr-Coulomb	120	0	32
	Granular Structure Backfill	Mohr-Coulomb	135	0	36
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32

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NOTES

1. Critical failure surface estimated using the entry and exit search criteria and the Morgenstern-Price analysis method.
2. Analysis assumes static conditions using a horizontal seismic coefficient equal to one-half of PGA.
3. Analysis does not include surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
ABUTMENT
SEISMIC CONDITIONS

May 2025 113462

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FIG. C2

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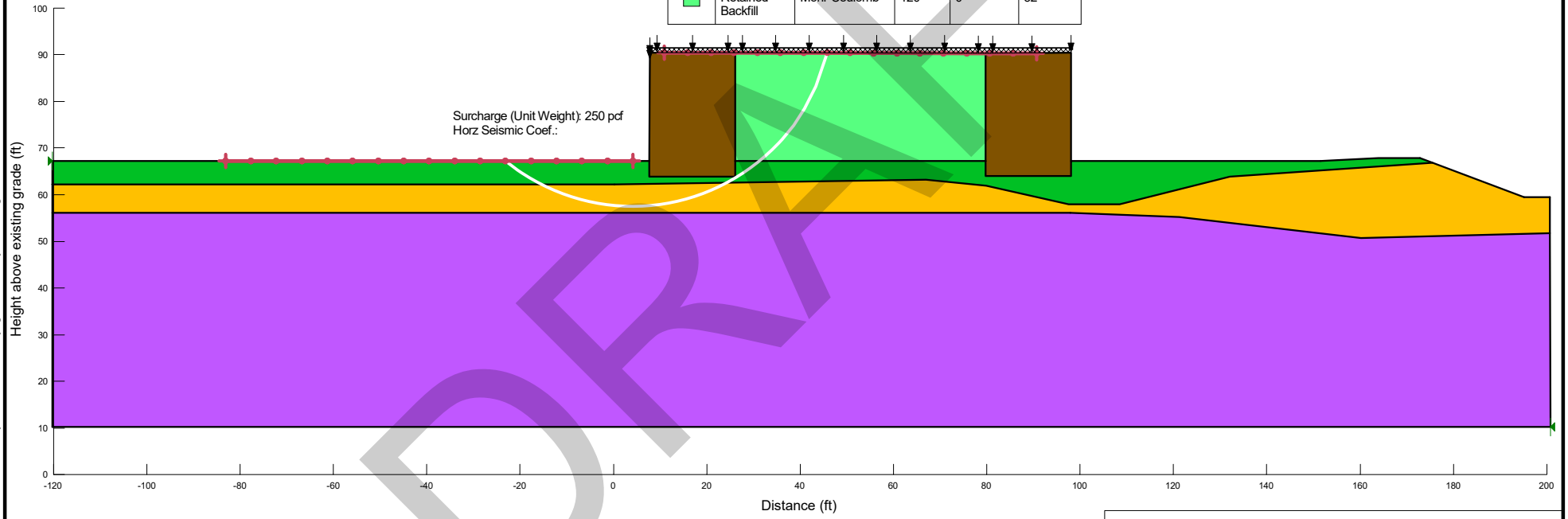
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

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2. Analysis only assumes static conditions. No seismic forces are included.
3. Analysis assumes 250 psf surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 1-1'
NORTH MSE WALL
May 2025 **STATIC CONDITIONS** 113462

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FIG. C3

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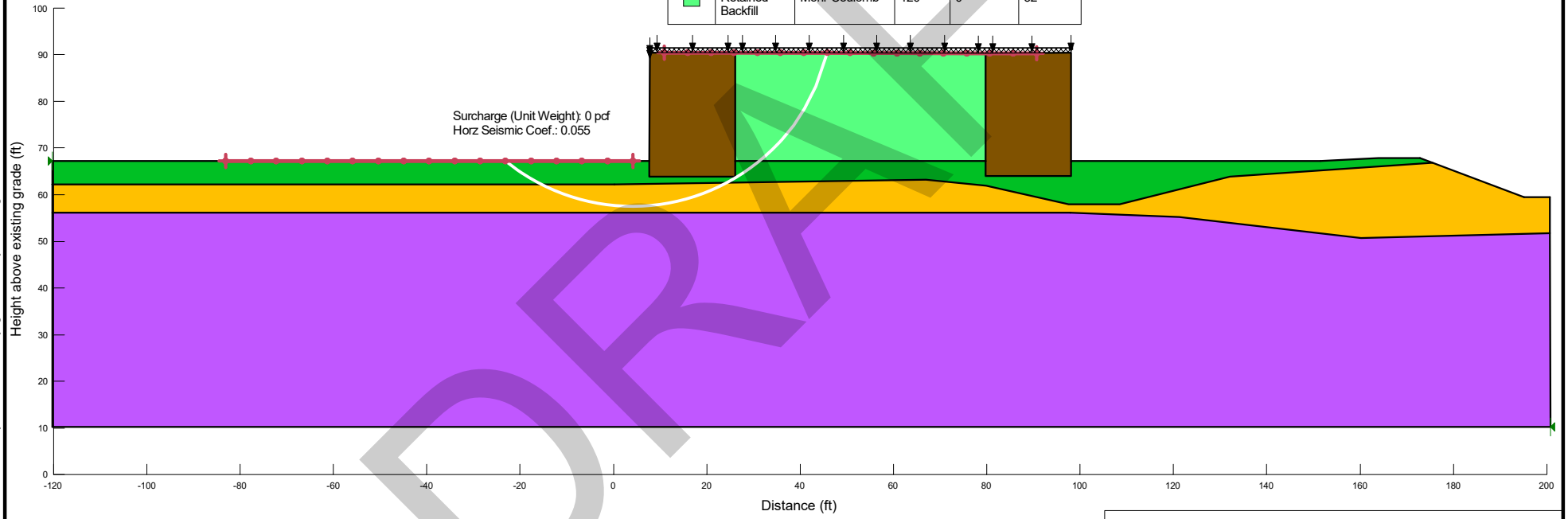
Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

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2. Analysis assumes static conditions using a horizontal seismic coefficient equal to one-half of PGA.
3. Analysis does not include surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 1-1'
NORTH MSE WALL
SEISMIC CONDITIONS

May 2025 113462

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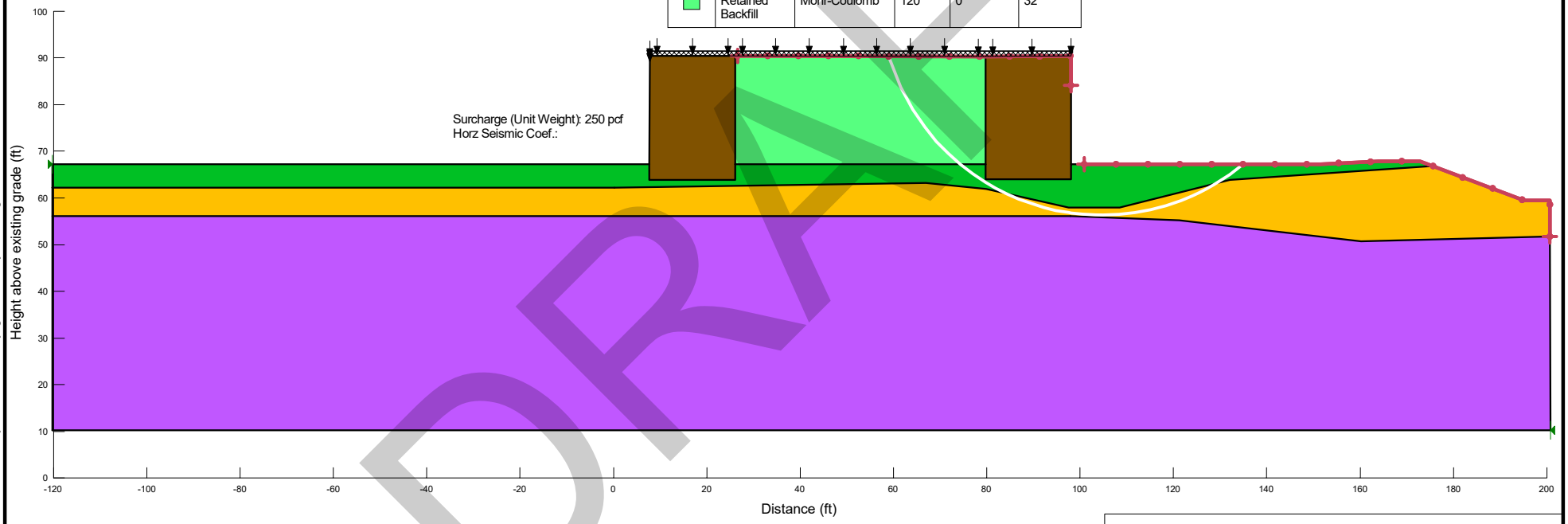
Geotechnical and Environmental Consultants

FIG. C4

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed MarketAnalysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

1. Critical failure surface estimated using the entry and exit search criteria and the Morgenstern-Price analysis method.
2. Analysis only assumes static conditions. No seismic forces are included.
3. Analysis assumes 250 psf surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 1-1'
SOUTH MSE WALL
STATIC CONDITIONS

May 2025 113462

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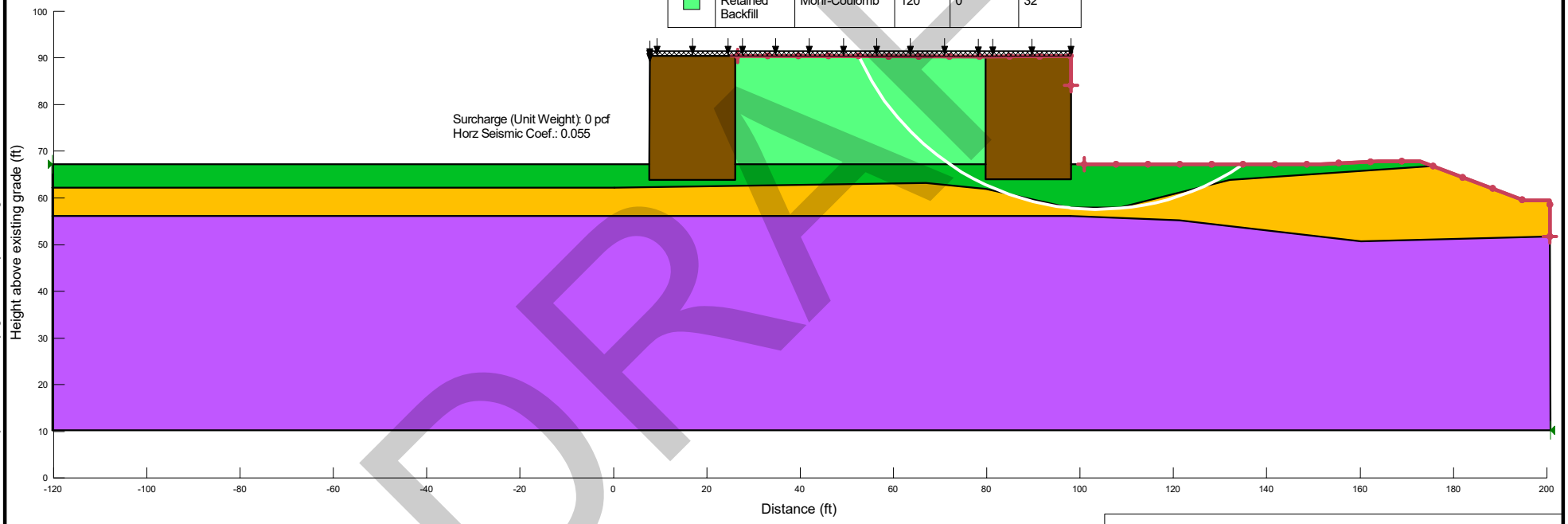
FIG. C5

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed Market\Analysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

1. Critical failure surface estimated using the entry and exit search criteria and the Morgenstern-Price analysis method.
2. Analysis assumes static conditions using a horizontal seismic coefficient equal to one-half of PGA.
3. Analysis does not include surcharge loading.

Reed Market Corridor Study
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GLOBAL STABILITY ANALYSIS SECTION 1-1' SOUTH MSE WALL SEISMIC CONDITIONS

May 2025 113462

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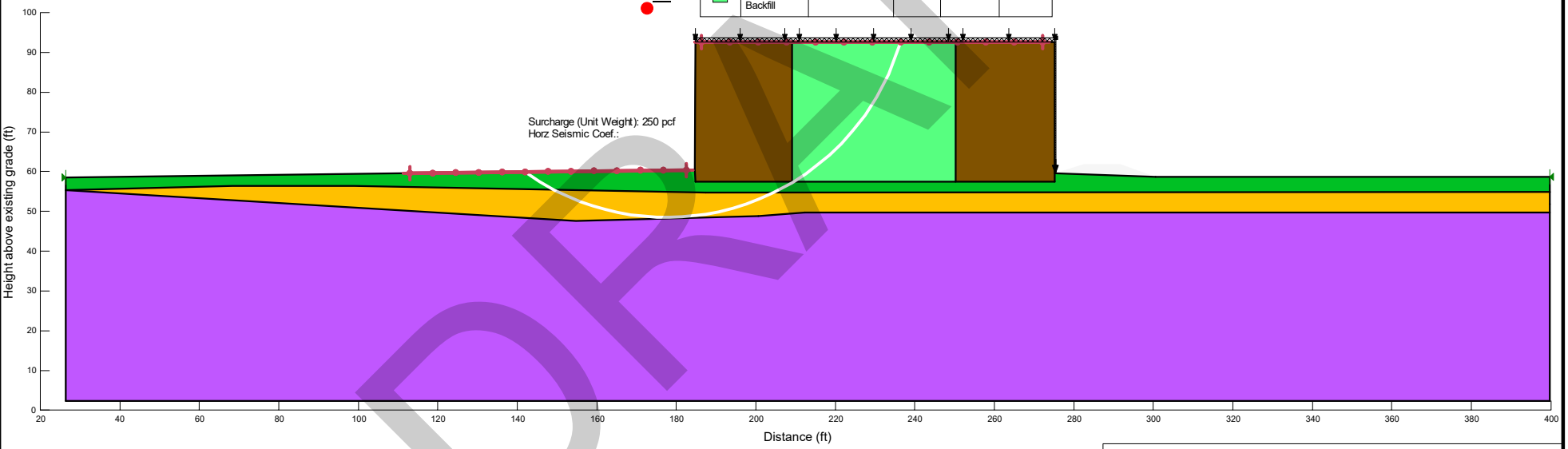
FIG. C6

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed MarketAnalysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

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2. Analysis only assumes static conditions. No seismic forces are included.
3. Analysis assumes 250 psf surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 3-3'
NORTH MSE WALL
STATIC CONDITIONS

May 2025 113462

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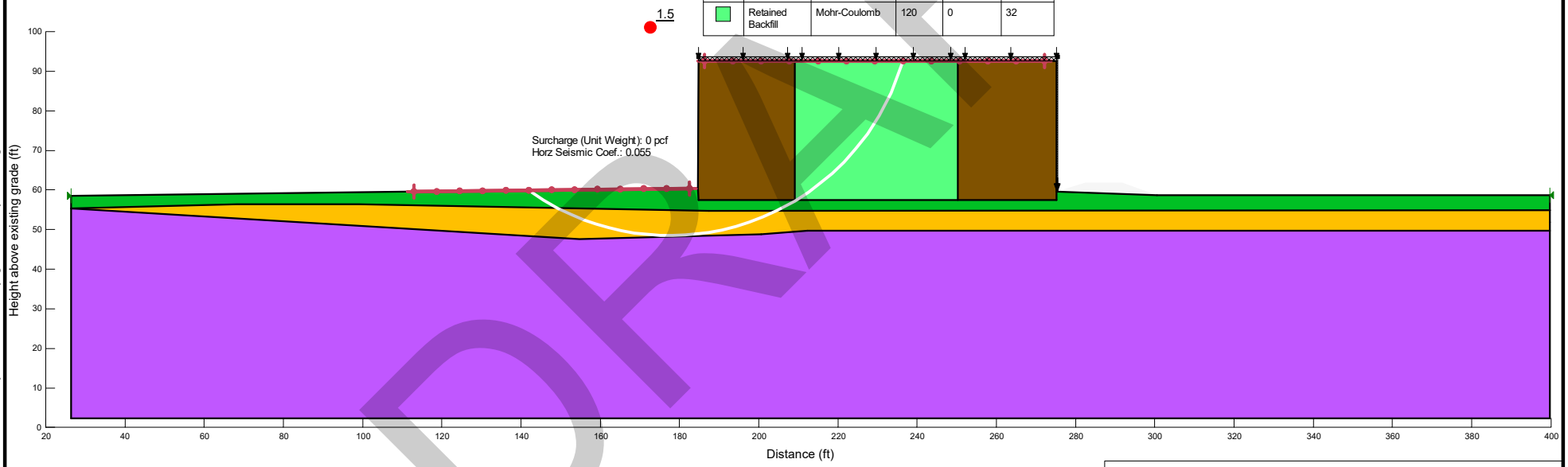
FIG. C7

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed Market\Analysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

1. Critical failure surface estimated using the entry and exit search criteria and the Morgenstern-Price analysis method.
2. Analysis assumes static conditions using a horizontal seismic coefficient equal to one-half of PGA.
3. Analysis does not include surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 3-3'
NORTH MSE WALL
SEISMIC CONDITIONS

May 2025 113462

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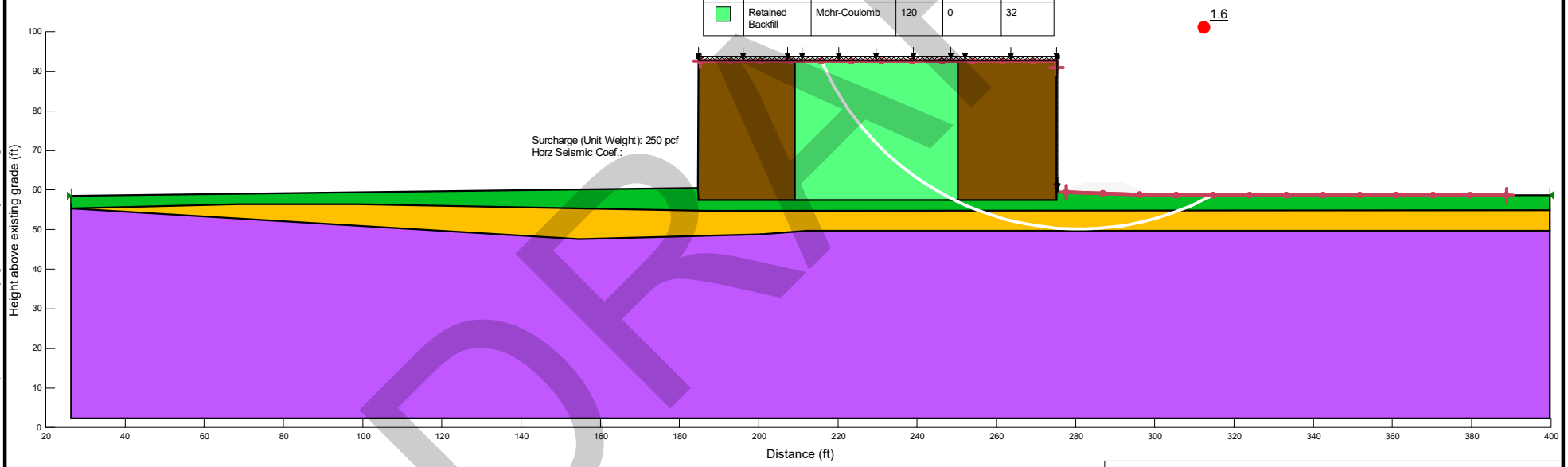
FIG. C8

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed MarketAnalysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

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2. Analysis only assumes static conditions. No seismic forces are included.
3. Analysis assumes 250 psf surcharge loading.

Reed Market Corridor Study
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GLOBAL STABILITY ANALYSIS
SECTION 3-3'
SOUTH MSE WALL
STATIC CONDITIONS

May 2025 113462

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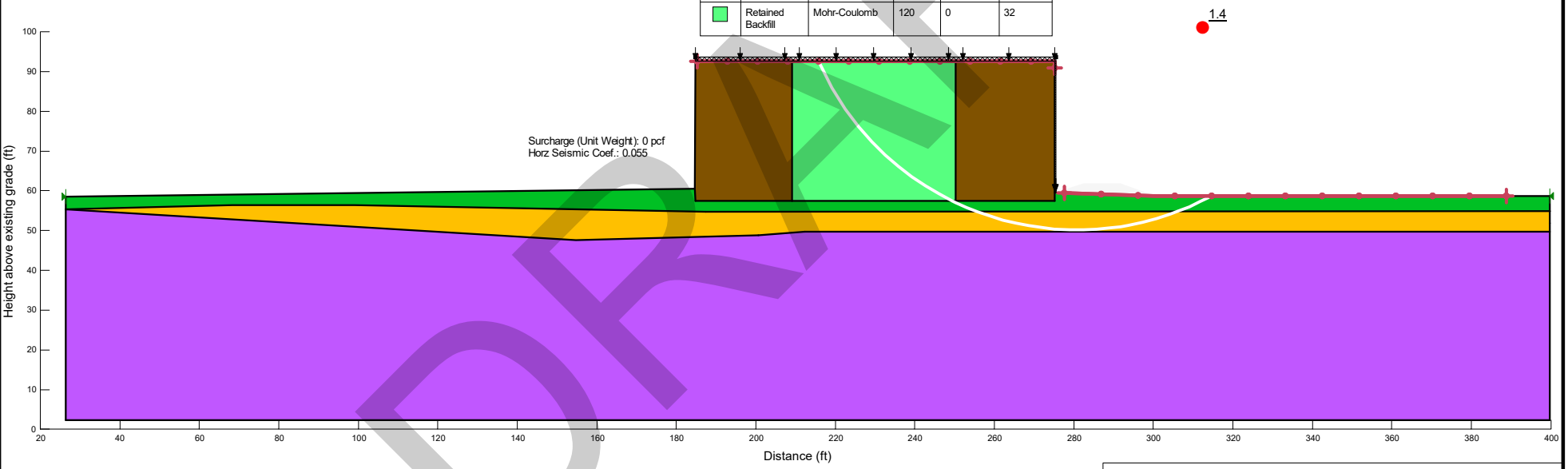
FIG. C9

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed Market\Analysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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3. Analysis does not include surcharge loading.

Reed Market Corridor Study
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GLOBAL STABILITY ANALYSIS
SECTION 3-3'
SOUTH MSE WALL
SEISMIC CONDITIONS

May 2025 113462

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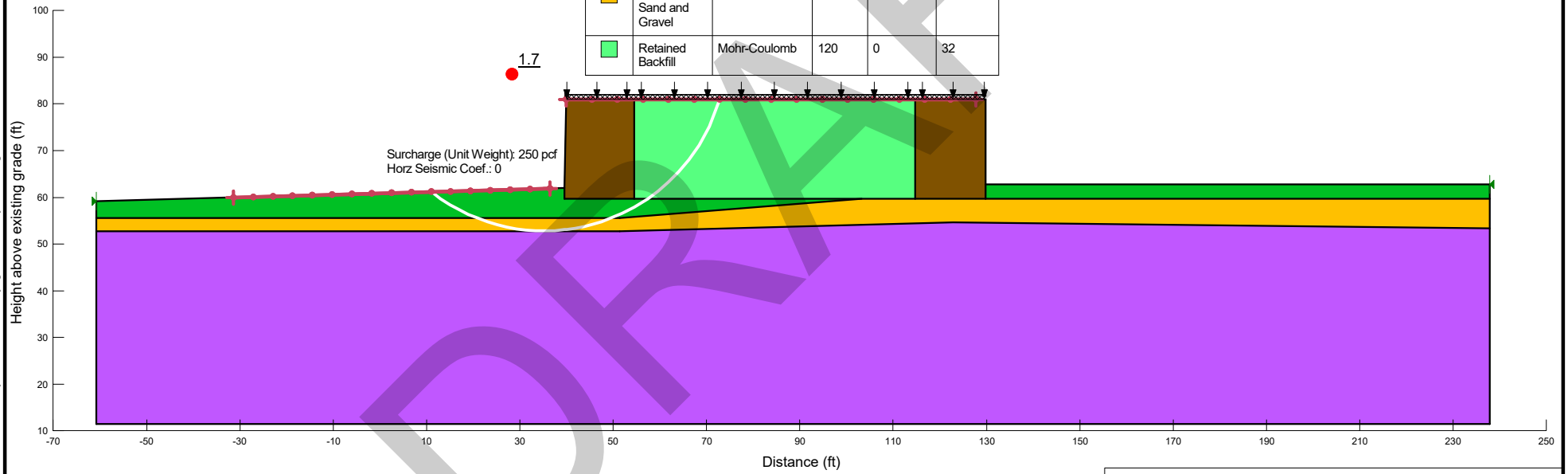
FIG. C10

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed MarketAnalysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

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2. Analysis only assumes static conditions. No seismic forces are included.
3. Analysis assumes 250 psf surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 4-4'
NORTH MSE WALL
STATIC CONDITIONS

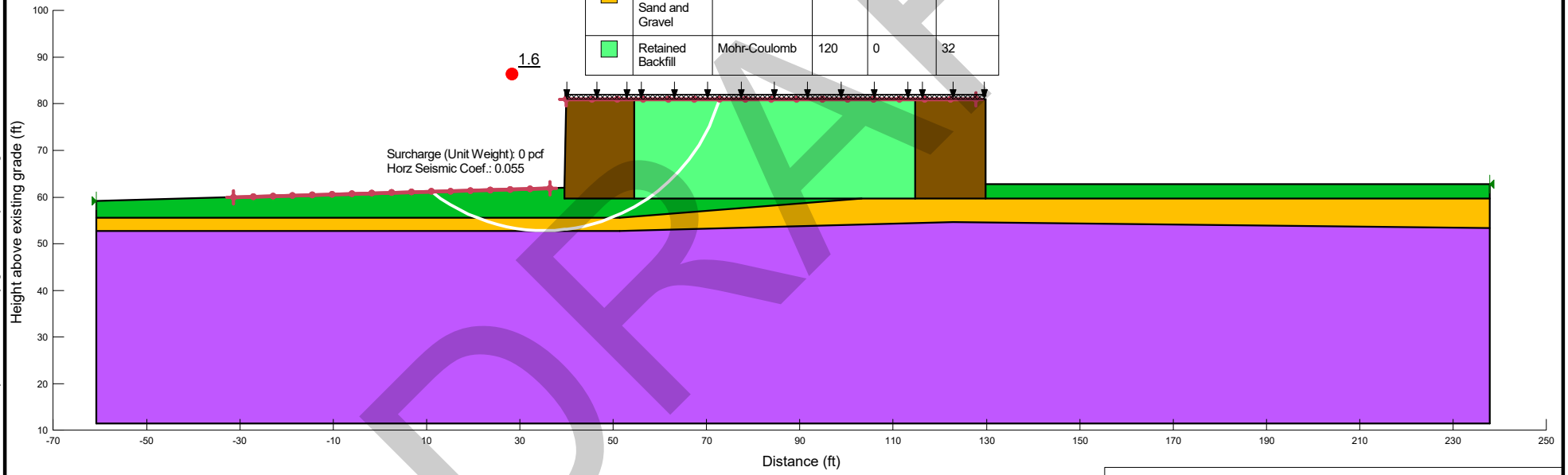
May 2025 113462

SHANNON & WILSON

FIG. C11

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed Market\Analysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



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NOTES

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2. Analysis assumes static conditions using a horizontal seismic coefficient equal to one-half of PGA.
3. Analysis does not include surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 4-4'
NORTH MSE WALL
SEISMIC CONDITIONS

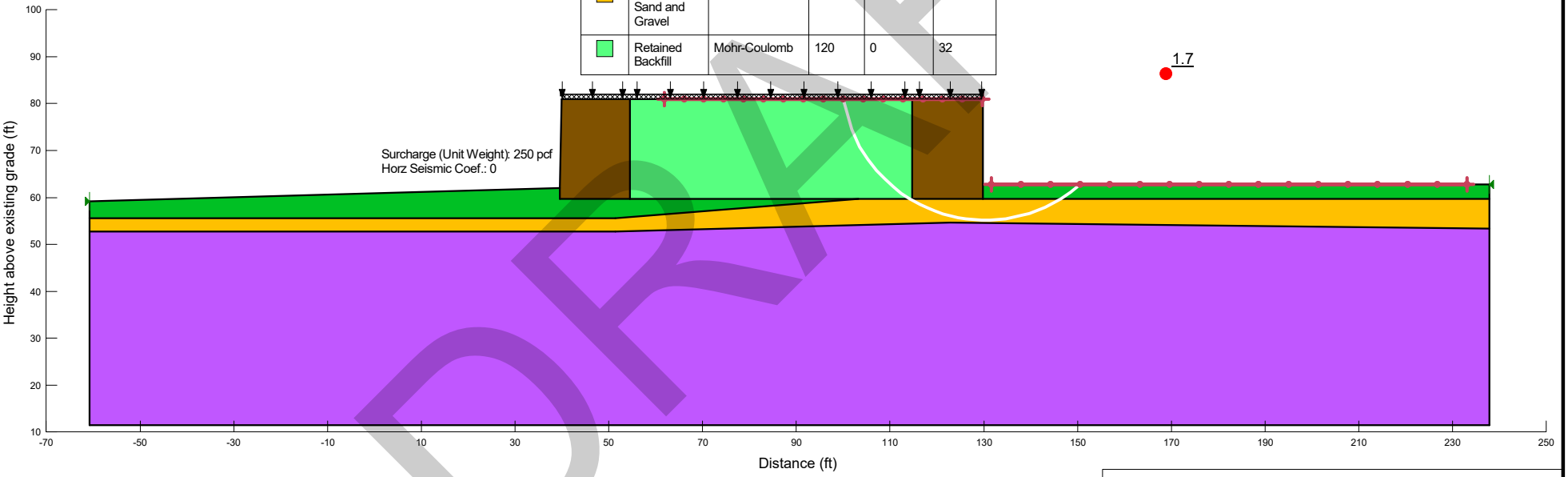
May 2025 113462

SHANNON & WILSON

FIG. C12

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed MarketAnalysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



DRAFT

NOTES

1. Critical failure surface estimated using the entry and exit search criteria and the Morgenstern-Price analysis method.
2. Analysis only assumes static conditions. No seismic forces are included.
3. Analysis assumes 250 psf surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 4-4'
SOUTH MSE WALL
STATIC CONDITIONS

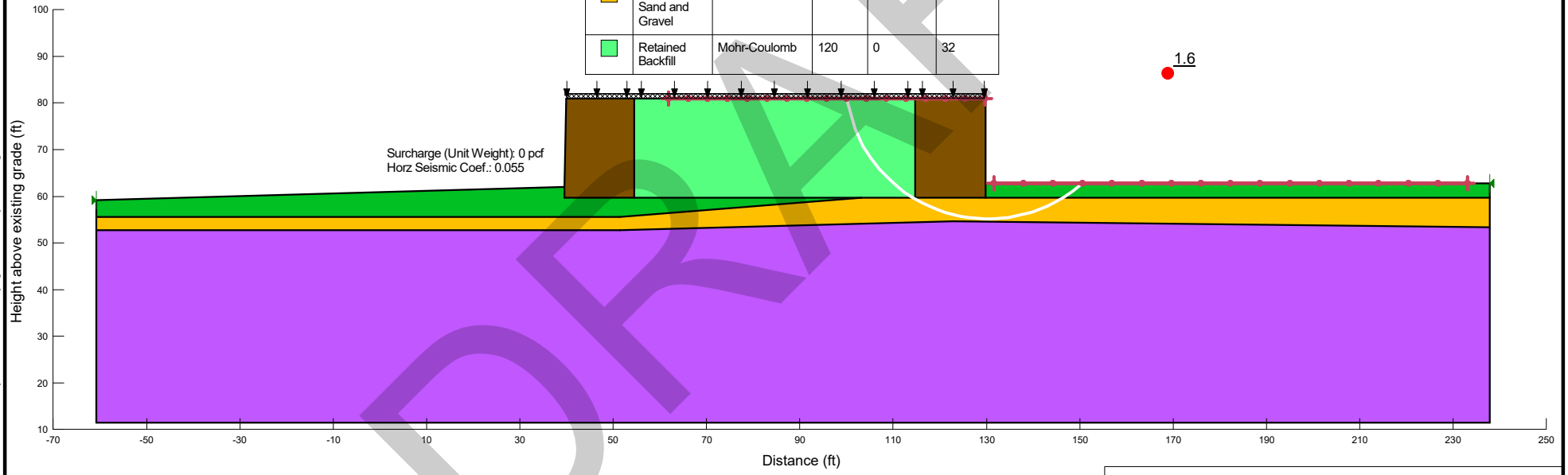
May 2025 113462

SHANNON & WILSON

FIG. C13

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed Market\Analysis\Global Stability\global stability 040425.gsz

Color	Name	Slope Stability Material Model	Unit Weight (pcf)	Effective Cohesion (psf)	Effective Friction Angle (°)
	Basalt	High Strength	130		
	Existing Fill	Mohr-Coulomb	115	0	32
	MSE wall	High Strength	130		
	Pleistocene Sand and Gravel	Mohr-Coulomb	110	0	27
	Retained Backfill	Mohr-Coulomb	120	0	32



DRAFT

NOTES

1. Critical failure surface estimated using the entry and exit search criteria and the Morgenstern-Price analysis method.
2. Analysis assumes static conditions using a horizontal seismic coefficient equal to one-half of PGA.
3. Analysis does not include surcharge loading.

Reed Market Corridor Study
Bend, Oregon

GLOBAL STABILITY ANALYSIS
SECTION 4-4'
SOUTH MSE WALL
SEISMIC CONDITIONS

May 2025 113462

SHANNON & WILSON

FIG. C14

\\shanwil.net\EF\PDX\113000s\113462 Bend - Reed MarketAnalysis\Global Stability\global stability 040425.gsz

IMPORTANT INFORMATION

Important Information

About Your Geotechnical/Environmental Report

DRAFT

IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL/ENVIRONMENTAL REPORT

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors that were considered in the development of the report have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

DRAFT

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary, because they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the Geoprofessional Business Association (https://www.geoprofessional.org)

DRAFT

APPENDIX 6:
OLD AMERICAN LANE LOAD RATING SUMMARY

OREGON D.O.T. BRIDGE SECTION
LRFR LOAD RATING SUMMARY REPORT (PAGE 1)

Latest Revision 4/22/2023

QUALITY CONTROL...

FIRM QC REVIEWER(S): Baelie Werner, EI; Kenton Alldritt, P.E.

ODOT QC CHECK BY:

REGISTERED PROFESSIONAL ENGINEER 16588 OREGON JULY 20, 1993 ERIC EDWARD BONN

EXPIRES: 12/31/

BRIDGE DATA...

BRIDGE #: 17C38 NBI FEATURE: COID Canal

BRIDGE NAME: COID Canal, Old American Lane

HIGHWAY NAME: Old American Lane (Driveway) HIGHWAY #:

REGION: 4 DIST: 10 COUNTY: Deschutes MILEPOST:

YEAR BUILT: 1975 DESIGN LOADING: OWNER: Deschutes County

SPAN DESCR: 1-35.5', 1-38.5' St Gir w/Timber Deck

OTHER DESCR: Repurposed rail car girders

LOAD RATING ENGINEER DATA...

RATING DATE: 3/31/25 FIRM: DOWL, LLC LOAD RATER: Eric E. Bonn, P.E. CALCULATION BOOK:

LATEST INSPECTION DATA...

INSP. DATE: 2/17/25 ADT: 1,000 ADTT: 400 YEAR of ADT (2 digits): A.C. DEPTH, INCHES: 3.0

	DECK:	SUPERSTR.:	SUBSTR.:	IMPACT ASSESSMENT (Elem. 999):
CONDITION RATINGS ---->	7	6	6	CS1

RATING DATA...

LRFR FACTORS: IMPACT 1+I: 1.25 γ_{DC}: 1.25 γ_{DW}: 1.25

LRFR RATINGS FOR N.B.I. : INVENTORY (Item 66): Tons 34.9 OPERATING (Item 64): Tons 45.3

SECTIONS EVALUATED: 4

COMMENTS: This run is to check for reuse of this bridge as the driveway to the storage unit. Existing bridge rails replaced with pinned median barriers. ADT & ADTT assumed.

NBI STATUS ITEMS:

Operational Status (Item 41):	A
Bridge Posting Status (Item 70):	5
Temporary Status (Item 103):	

LOAD:	L	<----1st rating control----> R.F.	Limit State	Force Type	Φ	CONTROLLING... MEMBER	SPAN	LOCATION	<----2nd rating control----> R.F.	Limit State	Force Type	Φ	CONTROLLING... MEMBER	SPAN	LOCATION
DESIGN & LEGAL VEHICLES															
HL93 (INVENTORY)	1.750	0.97	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	0.99	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
TYPE 3 (50K)	1.300	2.18	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	2.23	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
TYPE 3S2 (80K)	1.300	2.08	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	2.12	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
TYPE 3-3 (80K)	1.300	2.71	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	2.76	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
TYPE 3-3 & LEGAL LANE	1.300														
TYPE 3-3 TRAIN & LEGAL LANE	1.300														
SU4 TRUCK (54K)	1.300	1.85	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	1.89	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
SU5 TRUCK (62K)	1.300	1.77	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	1.80	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
SU6 TRUCK (69.5K)	1.300	1.60	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	1.63	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
SU7 TRUCK (77.5K)	1.300	1.50	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	1.53	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
EV2 TRUCK (57.5K)	1.300	1.94	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	1.98	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
EV3 TRUCK (86K)	1.300	1.24	St1	+M	1.000	Int. Gir.	2 of 2	0.5L	1.26	St1	+M	1.000	Int. Gir.	2 of 2	0.5L
CTP VEHICLE, MULTI-LANE															
OR-CTP-2A (105.5K)	1.300	2.12	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	2.16	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-CTP-2B (105.5K)	1.200	2.08	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	2.12	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-CTP-3 (98K)	1.200	1.86	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.90	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
STP VEHICLE, MULTI-LANE															
OR-STP-3(120.5K)	1.200	1.91	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.95	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4A (99K)	1.200	1.84	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.88	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4B (185K)	1.150	1.89	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.93	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4C (150.5K)	1.150	1.54	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.57	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4D (162.5K)	1.150	1.59	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.63	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4E (258K)	1.150	1.65	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.69	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-5BW (204K)	1.150	1.72	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.75	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
SPECIAL	1.000														
STP VEHICLE, SINGLE LANE W/ESCORT															
OR-STP-3(120.5K)	1.150	2.39	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	2.44	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4A (99K)	1.150	2.30	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	2.35	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4B (185K)	1.150	2.27	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	2.32	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4C (150.5K)	1.150	1.85	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.88	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4D (162.5K)	1.150	1.91	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	1.96	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-4E (258K)	1.150	1.98	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	2.03	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
OR-STP-5BW (204K)	1.150	2.06	St2	+M	1.000	Int. Gir.	2 of 2	0.5L	2.10	St2	+M	1.000	Int. Gir.	2 of 2	0.5L
SPECIAL	1.150														

OREGON D.O.T. BRIDGE SECTION

LRFR LOAD RATING WORKSHEET (PAGE 2)

BRIDGE NO: 17C38 RATING DATE: 3/31/2025

BRIDGE NAME: COID Canal, Old American Lane

SECTION EVALUATED	1	2	3	4	5	6	7	8
LRFD Brass .OUT File Name:	STLINT.OUT	STLINT.OUT	STLEXT.OUT	STLEXT.OUT				
FORCE TYPE (+/-M, V, T, C or B):	V	+M	V	+M				
PHI (Resistance Factor):	1.000	1.000	1.000	1.000				
MEMBER (eg. Int. girder):	Int. Gir.	Int. Gir.	Int. Gir.	Int. Gir.				
SPAN (eg. 1 of 4):	2 of 2	2 of 2	2 of 2	2 of 2				
LOCATION (eg. 0.1L):	0.0L	0.5L	0.0L	0.5L				
SINGLE LANE DF	0.600	0.600	0.600	0.600				
MULTI-LANE DF	0.500	0.500	0.500	0.500				
IMPACT (IM)	1.250	1.250	1.250	1.250				
DESIGN & LEGAL VEHICLES								
HL93 (INVENTORY)	1.63 St1	0.99 St1	1.61 St1	0.97 St1				
TYPE 3 (50K)	3.56 St1	2.23 St1	3.52 St1	2.18 St1				
TYPE 3S2 (80K)	3.68 St1	2.12 St1	3.65 St1	2.08 St1				
TYPE 3-3 (80K)	4.17 St1	2.76 St1	4.12 St1	2.71 St1				
TYPE 3-3 & LEGAL LANE								
TYPE 3-3 TRAIN & LEGAL LANE								
SU4 TRUCK (54K)	3.22 St1	1.89 St1	3.19 St1	1.85 St1				
SU5 TRUCK (62K)	2.95 St1	1.80 St1	2.92 St1	1.77 St1				
SU6 TRUCK (69.5K)	2.87 St1	1.63 St1	2.84 St1	1.60 St1				
SU7 TRUCK (77.5K)	2.87 St1	1.53 St1	2.84 St1	1.50 St1				
EV2 TRUCK (57.5K)	3.07 St1	1.98 St1	3.03 St1	1.94 St1				
EV3 TRUCK (86K)	2.07 St1	1.26 St1	2.05 St1	1.24 St1				
CTP VEHICLE, MULTI-LANE								
OR-CTP-2A (105.5K)	3.55 St2	2.16 St2	3.51 St2	2.12 St2				
OR-CTP-2B (105.5K)	3.80 St2	2.12 St2	3.76 St2	2.08 St2				
OR-CTP-3 (98K)	3.18 St2	1.90 St2	3.15 St2	1.86 St2				
STP VEHICLE, MULTI-LANE								
OR-STP-3(120.5K)	3.15 St2	1.95 St2	3.12 St2	1.91 St2				
OR-STP-4A (99K)	3.00 St2	1.88 St2	2.97 St2	1.84 St2				
OR-STP-4B (185K)	2.75 St2	1.93 St2	2.72 St2	1.89 St2				
OR-STP-4C (150.5K)	2.67 St2	1.57 St2	2.64 St2	1.54 St2				
OR-STP-4D (162.5K)	2.43 St2	1.63 St2	2.40 St2	1.59 St2				
OR-STP-4E (258K)	2.53 St2	1.69 St2	2.51 St2	1.65 St2				
OR-STP-5BW (204K)	2.49 St2	1.75 St2	2.46 St2	1.72 St2				
SPECIAL								
STP VEHICLE, SINGLE LANE W/ESCORT								
OR-STP-3(120.5K)	3.94 St2	2.44 St2	3.91 St2	2.39 St2				
OR-STP-4A (99K)	3.76 St2	2.35 St2	3.72 St2	2.30 St2				
OR-STP-4B (185K)	3.30 St2	2.32 St2	3.26 St2	2.27 St2				
OR-STP-4C (150.5K)	3.20 St2	1.88 St2	3.17 St2	1.85 St2				
OR-STP-4D (162.5K)	2.92 St2	1.96 St2	2.88 St2	1.91 St2				
OR-STP-4E (258K)	3.04 St2	2.03 St2	3.01 St2	1.98 St2				
OR-STP-5BW (204K)	2.99 St2	2.10 St2	2.95 St2	2.06 St2				
SPECIAL								

APPENDIX 7:
PUBLIC FEEDBACK SUMMARY-
DECEMBER OPEN HOUSE

REED MARKET ROAD RAILROAD CROSSING PROJECT

DECEMBER OPEN HOUSE

Public Feedback Summary

January 2025

Prepared for:

City of Bend

CITY OF BEND

Prepared by:

JLA Public Involvement

jla Public Involvement

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Promotion 3
Participation 3
Key Takeaways 4
Feedback Summary 5
Participant Information 11
Appendixes 11

OVERVIEW

The Reed Market Road Railroad Crossing Project open house informed the Bend community about the railroad crossing planning underway for Reed Market Road. The project team shared the topics of consideration for a successful project and asked for feedback on key project decisions. The event received feedback from community members who travel on Reed Market Road.

Reed Market Road is a vital east-west arterial in SE Bend. Six to eight trains cross this road each day, and each train delays traffic for five to twenty minutes. This leads to increased pollution, slow response times for emergency services, and safety risks from people trying to beat a train to avoid delay.

Separating this crossing—by raising the road above or lowering it below the train tracks— would end these delays and improve safety for all travelers. This project will decide whether and how to build a bridge or tunnel crossing the railroad tracks on SE Reed Market Road.

Outreach Activities

Outreach activities for this phase of the project included:

- **December 4 - 18** – Online open house
- **December 9, 5:30 - 7:30 pm** – In-person open house at Larkspur Community Center

The online and in-person open houses were available in English and Spanish. No responses were received online in Spanish, one participant attended in person who spoke Spanish but participated in English.

Promotion

To promote the project and the open house, the following outreach was completed:

- **Postcard:** mailed to the project area of 7,086 addresses
- **Email:** sent to 3 recipients.
- **Website update**
- **Press release:** submitted on December 4, 2024
- **Social media posts:** on December 4, 2024
    - **Instagram** 3,900 reach, 25 likes and reactions
    - **Facebook** 45,400 reach, 77 likes and reactions

Participation

The project team hosted an open house event at Larkspur Community Center on December 9, 2024, from 5:30 to 7:30 p.m. **88 people signed-in at the event** and **59 submitted a comment form**. The online open house was posted on the project website from December 4 through December 18, 2024. **263 people** submitted the online survey. To see the full original comments, see Appendix I: In-person Comment Forms in a separate PDF.

All information and questions provided at the in-person event were replicated in the online event, with the exception of the write-on map. This topic was addressed with the question “Are there any specific locations you have concerns about?” Overall, at least 350 people participated with **322 responses**

submitted. To see the list of full comments as they were entered, see Appendix II: Online Survey Responses in a separate PDF.

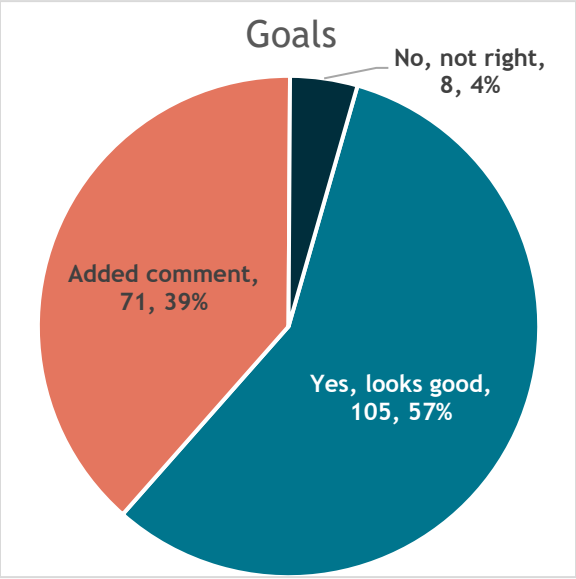
Key Takeaways

- We received survey responses from a total of 322 participants, online and in-person.
- 184 participants commented on the project goals. The **majority (105) stated that the goals look right or nothing is missing**. 71 people provided comments and suggestions for additional goals.
- Participants shared success indicators for the project with the most desirable outcomes being **improved traffic flow and reduced wait times**, **maintaining access and connectivity** for businesses and residents, and **prioritizing safety** for people walking and biking on this corridor.
- Participants who responded (297) shared a majority preference (53%) **for Option 2: Shared-use paths** on both sides of the road. Participants agreed more separation between modes of travel when possible is important in either option.
- 221 participants wrote about the **importance of 9th Street** to them. Of those who commented, 74% indicated it was “Important” (92) or “Very Important” (71). Participants shared various reasons why the 9th Street connection is important, including:
    - Accessing businesses
    - Through traffic and connection to other local streets
    - Connectivity
        - A detour to bypass traffic on 3rd, 15th, 27th, and other major connections.
        - To access key north-south route (connecting with American Lane)
        - To get to Bend High School, post office, and other community locations.
- Construction impacts and detour routes are stated as a major concern for many.
- Many participants are also hopeful that this project will be able to take the larger corridor into account.

FEEDBACK SUMMARY

This feedback summary combines responses collected at the in-person open house and the online open house. Over **1,050 comments** were received. Participants regularly write the same comment in more than one response field. Comments from the various survey questions are organized below according to the question they relate to, not necessarily the one they were written in. *Comment counts, shown in parentheses (#) prior to a comment,* ***do not represent the number of participants who hold that opinion, but the number of times the comment was made****.*

Do the project goals look right to you? Is anything missing?

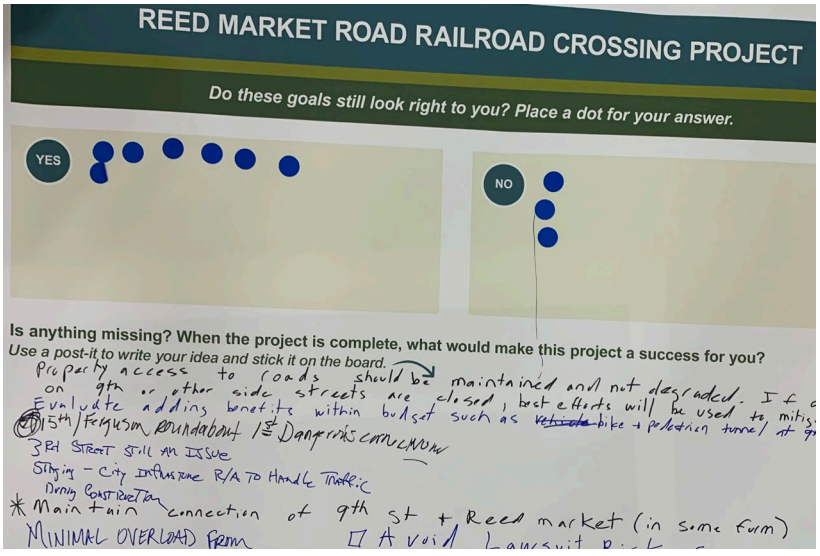


Participants shared open comments for this question. Of the 184 participants who commented, the majority (105) responded that the project goals look right and/or nothing is missing. Over a third (71) provided further feedback on project goals or suggestions that could be added.

- (105, 57%) Yes, the project goals look good! Or Nothing is missing.
- (71, 39%) Had something to add.
- (8, 4%) No, they do not look right.

Additional goals provided by participants included:

- (39) Mitigating construction impacts and
  - (23) Limiting the time it takes to complete this project.
- (33) Planning this portion of Reed Market Road to accommodate future growth, and to ensure improved flow on adjacent connections (15th, 3rd, 27th, and Wilson were mentioned).
- (4) Ensuring the "Serve all forms of travel" goal includes that the bridge will have a **reasonable grade** so it is not too steep for biking, and includes ADA requirements for wheelchair access.
- (4) Minimizing impacts to wildlife and the environment. (For example, wildlife using the canal as a travel corridor.)



When the project is complete, what would make this project a success for you?

Participants shared open ended comments for this question on details that would improve their experience on Reed Market Road in the future. A successful project will:

- (138) **Improve traffic flow** and decrease wait time in this area. The train would no longer be a major traffic concern. Emergency services can also get through without delay.
- (41) **Maintain access to 9th Street** (especially for businesses), American Lane, and Quill Place (local access) – and/or improve these intersections.
    - (21) Improve accessibility from connector streets and to businesses, **improving overall connectivity**. (These comments were less specific and just concerned with connectivity.)
- (40) **Improve safety** for people on bike and walking with safe access and a functional crossing at Reed Market, which reduces conflict between vehicles and those not in a vehicle. Including sufficient lighting.
    - (32) Improve future multimodal **safety** and reduce the rate of accidents.
    - (19) Maintain the **9th Street/Canal trail** with a safe crossing at Reed Market.
- (39) Implement **effective detours** during construction and try to **limit construction impacts**.
    - (23) Be completed **quickly**.
- (33) Include **comprehensive planning for the entire corridor** and **consider future traffic** on the rest of Reed Market Road. Intersections and streets repeatedly mentioned are 3rd, 15th, 27th, Wilson, and Murphy.
    - (10) Some suggested a roundabout is needed at Ferguson and 15th before construction for this project starts.
    - (2) Compatibility with the 15th Street roundabout expansion.
- (22) **Limit costs** and stay within budget.
- (13) **Minimize business impacts and maintain access** for property owners including limiting property acquisition.
- (12) Ensure **livability is not impacted** significantly for those living nearby. Participants shared concerns such as light and noise pollution, and vibrations from trucks as issues that would need to be considered to maintain a low-impact on neighbors.
- (9) Include a beautiful design and/or nice landscaping.
- (6) The project would reduce vehicle usage by supporting alternative transportation modes, and include traffic calming measures on Reed Market.

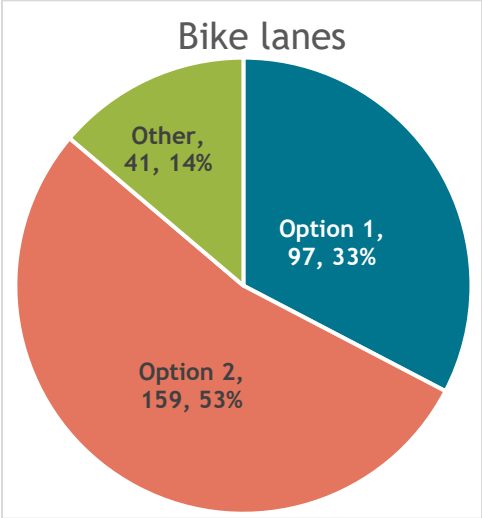
Participants shared some additional requests for consideration:

- (6) Keep Reed Market Road project area as is and not make any changes.
- The new bridge's functionality is higher priority than bridge attractiveness.
- Project would be compatible long-term for light rail.

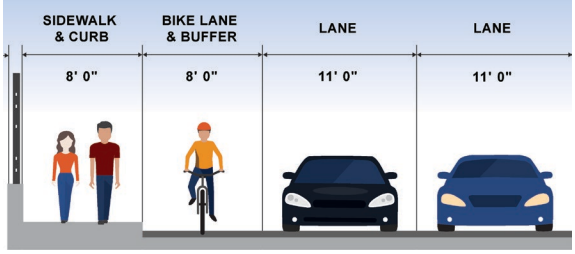
Which option do you prefer for the bridge deck bike lanes?

297 participants responded to this question. Participants shared a majority preference (53%) for Option 2: Shared-use paths on both sides of the road.

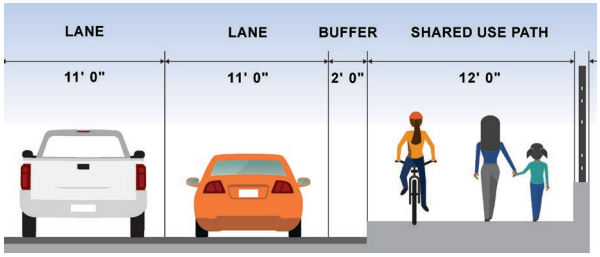
- (97, 33%) Option 1: Sidewalks and bike lanes on both sides of the road.
- **(159, 53%) Option 2**: Shared-use paths on both sides of the road.
- (41, 14%) Other: A comment or alternative idea.



Option 1: Sidewalk and bike lanes



Option 2: Shared use paths



Participants shared these comments about the two options:

- (9) Option 1 could be an acceptable option with buffers/planters. Participants see the need for more separation between vehicle and non-vehicle lanes.
- (4) Option 2 but with lane markers between walking and biking.
- (3) Need separation for e-bikes

> *"I like bike lanes/walking paths together if they are wide enough to pass each other."*

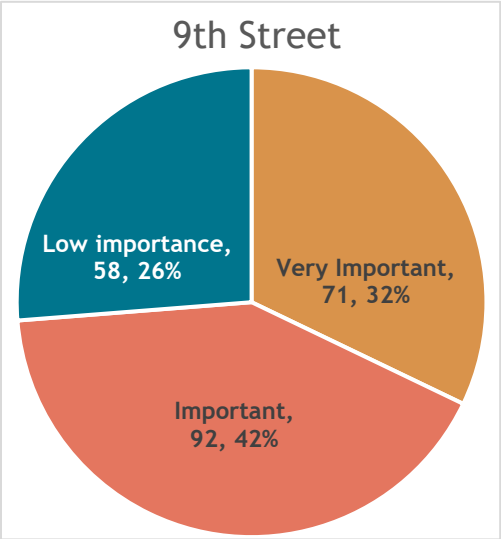
For the participants who preferred another option, these are the ideas they wrote in:

- (9) Reed Market should maintain just 3 lanes (one turn lane) throughout, it causes more conflict switching between 1 and 2 lanes.
    - Limit vehicle lanes to meet the City's alternative transportation goals.
- (6) A hybrid option with **a tunnel or at grade for peds and bikes** while vehicles use a bridge.
    - (4) Some voiced concern about steep grades for bikes with this bridge design.
- One side of the street is just the sidewalk and the other side has the two-way bike lane.
- Use the typical cross-section for the bridge.
- One person said the Wilson redesign is a good example, while another voiced opposition to Wilson.

Some additional concerns and suggestions regarding the cross section:

- (18) Prioritize vehicle traffic over biking and walking improvements, as the vast majority of users drive. These participants suggested more car lanes over bike lanes (4 lanes from 3rd to 27th).
    - Some are against including special funding or considerations for the bike/ped facilities.
- (2) Bend needs bike paths that are off the road, such as trails.
- Go with the most cost-effective option.

How important is the 9th Street connection to Reed Market Road, and why?



Participants' responses to this question were open text. 221 participants stated explicitly how important the 9th Street connection is to them, others mentioned how they use the road. Of those who commented, the majority (74%) indicated it was “Important” (92), or “Very Important” (71) to them.

Participants wrote how important the 9th Street connection is to them:

- (71, 32%) **Very important**
- (92, 42%) **Important**
  - Especially for business access.
  - (17) Use it daily / often.
- (58, 26%) **Not important to me** / don’t use it / minimally (only to avoid the train delays)
  - (26) Many people said that 9th is too difficult to access from Reed Market. It feels unsafe, especially to make left turns. Some said they avoid this route entirely.
  - (3) Use it occasionally.

Participants shared these reasons why 9th Street is important:

- (59) Many pointed out 9th Street’s importance for **business access**.
- (40) Many shared 9th Street is needed for **connectivity** to other areas and traffic flow.
- Many said they like to use 9th as an **alternate route** to avoid traffic or reduce travel time:
  - (18) Generally, no specific street named.
  - (39) Alternate to 15th Street.
  - (21) Alternate to avoid 3rd Street.
  - Also mentioned as a detour for 27th, Olney, Wilson.
- This route provides access to:
  - (25) Wilson
  - (21) The high school
  - (15) Downtown/Midtown/Franklin
  - The post office
- (25) Some expressed concerns that closing 9th will increase congestion elsewhere.
- (21) The bike and pedestrian connection via 9th is important.
- (10) Some shared this connection from 9th-Reed Market-American is a key north-south route.
  - (5) Another north/south route is needed as current demand exceeds capacity.
- (2) This connection is important for emergency access.

Additional comments or requests:

- (2) Some shared that if 9th is closed there would need to be an alternative connection to 15th.
- (2) Would it be possible to keep a 9th-American connection below the train bridge?
- Please use this reconfiguration to make biking and walking easier than driving.
- It would be better to not have the extra confusion of an intersection at the bridge landing.

Are there any specific locations you have concerns about? Please explain what and where.

Participants shared concern about maintaining access to:

- (57) 9th Street - access to businesses and alternative route.
- (48) American Lane (add a possible roundabout?).
- (20) Business access in the area, not necessarily 9th Street.
- (19) Canal trail or tunnel connection – this is a needed safe crossing for walking and biking.
- (4) Quill Street access to Reed Market - Luderman Crossing.

Participants shared traffic concerns at:

- (10) 15th Street roundabout.
- (8) 15th and Ferguson - keeping up with traffic demand, especially with detours that would be going here. Needs roundabout or better traffic flow. Request to focus here first.
- (3) Paiute Way - needs to be taken into consideration (left turns here are difficult, increased traffic if 9th closed).



Additional concerns/comments:

- Iron Horse Lane (cul-de-sac), noise and aesthetics impacts.

Is there anything else we need to consider when planning for this railroad crossing?

- (21) Some repeated their support for the connection at 9th and at American – these are important for business access.
- (20) Support for bicycle and pedestrian access: maintain a connected network via the Canal Trail, ensure user safety, reduce stress/fear, and add lighting.
- (13) Expressed preference for an undercrossing to a bridge.
    - (4) Prefer a bridge.
- (9) Consider maintenance during winter conditions, drainage and ice removal for all users, steep slippery grades and lane markings in the snow.
- (8) Expressed enthusiasm for this project, it's a needed change.
- Consider safe egress on all streets in emergency situations.

Requests and concerns:

- (4) Reed Market needs left turn lanes.
- (3) Concerns for the canal, what about piping it or RAB(?).
- (2) This street needs more trees and planter strips
- Request that survey results are published.
- Signal timing along Reed Market needs coordination to avoid backups.

Suggestions:

- (4) Recommendation to follow the Murphy Road design.
- (4) BNSF railroad company should contribute to project.
- Save time with preformed overpass girders.

Questions:

- (2) Why not re-route the train to the east?
- Can we build the bridge for the train instead of the road?
- Has there been a cost benefit analysis for this project?

PARTICIPANT INFORMATION

Neighborhood

Data collected from online open house participants.

Most common neighborhoods	Count
Old Farm District	59
Larkspur	37
Foxborough	14
Orchard District	8
SE Bend	8
Mountain View	5
Stone Creek	5
Luderman Crossing	4
Tillicum Village	4
Kings Forest	3
Orion Green	3

Neighborhoods mentioned twice each: Awbrey Butte, Century West, Ponderosa Estates, River West, Southern Crossing, Southwest Bend, Summit West, Sun Meadow, Tanglewood, The Bridges.

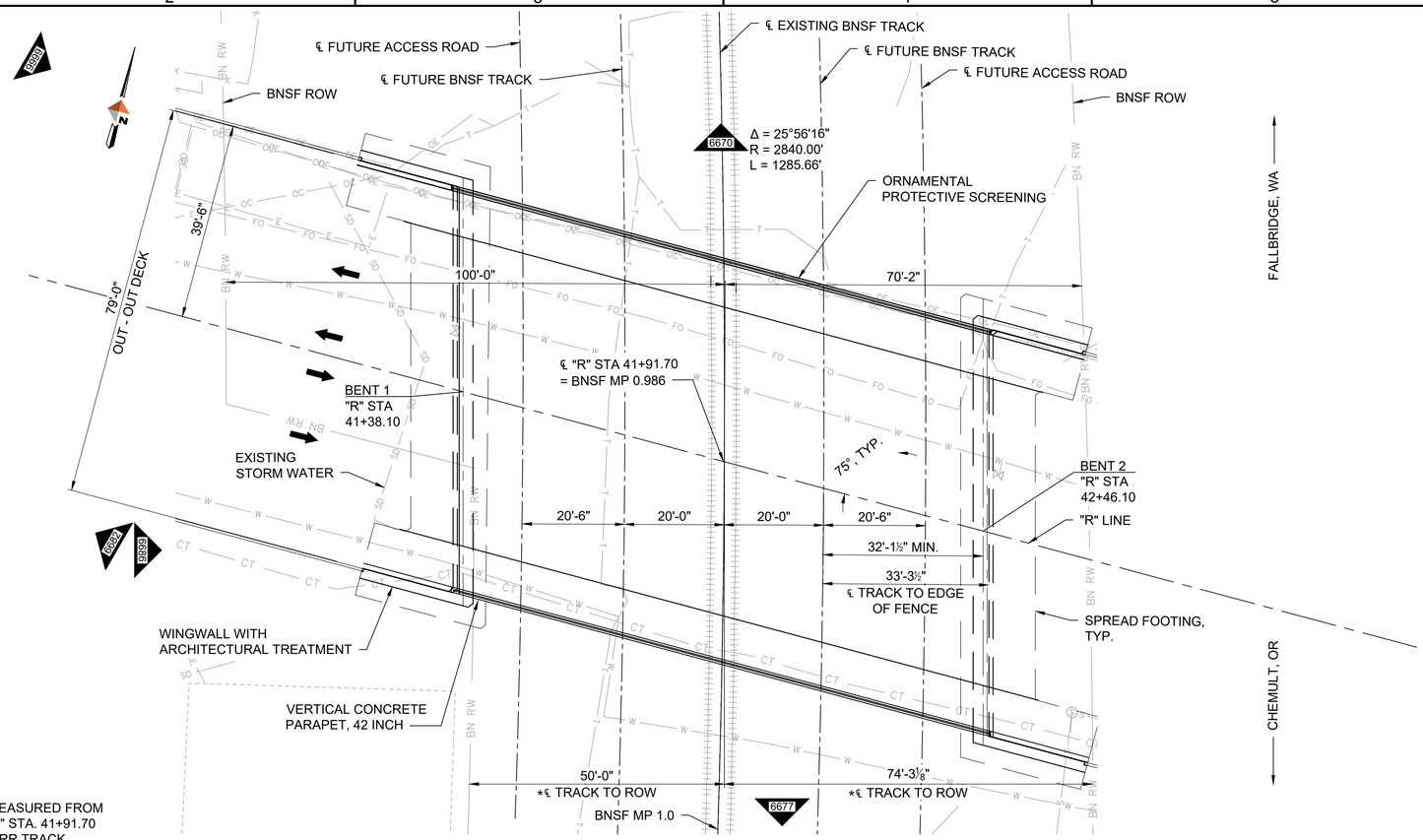
Additional neighborhoods mentioned just once each: Arena Acres, Bend East side, Blue Ridge, Boyd Acres, Broken Top, Bronzewood, Brousterhause and Murphy, Conifer Ave, DrW, Hamby Road, Iron horse, Nottingham Square, Old Bend, Quail Pine, SW, Ridgewater off Ferguson, SW Bend, The Pines near Murphy and Brosterhous, Tumalo, West Century, West side, Woodriver Village, Woodside Ranch.

APPENDICES

Please see Open House Summary - Appendix PDF document for all original responses from the in-person event and online open houses.

APPENDIX 8:
BNSF RAILROAD MEMO AND UPDATED EXHIBITS

UPDATED



*NOTE: DISTANCE IS MEASURED FROM INTERSECTION OF ℄ "R" STA. 41+91.70 AND ℄ EXISTING BNSF RR TRACK

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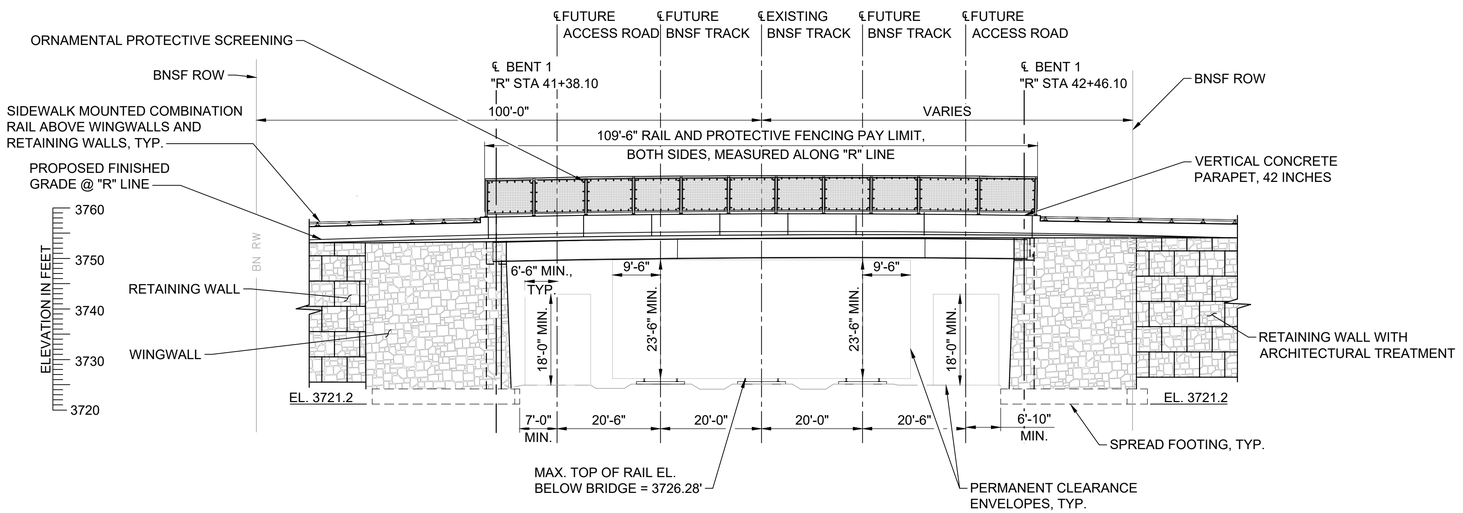

ELEVATION (PERPENDICULAR TO EXISTING TRACK)

SCALE: 1" = 15'

ELEVATIONS ARE BASED ON THE NGVD29 DATUM.

THE ELEVATION OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION.

NOTE: ILLUMINATION WILL BE PROVIDED ACCORDING TO SECTION 5.7 OF THE UPRR BNSF JOINT GUIDELINES FOR RAILROAD GRADE SEPARATION PROJECTS.

NOTE: SEE SHEET EH02 FOR CONSTRUCTION CLEARANCE ENVELOPE.

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
NOLAN TANNER TORKELSON
EXPIRES: 06/30/2026

REED MARKET CORRIDOR STUDY

RAILROAD EXHIBIT

DESCHUTES COUNTY, OREGON

CITY OF BEND

REVISIONS:

DOWL
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772
WWW.DOWL.COM

DESIGNED BY: T.T.
DRAWN BY: I.F.
SCALE: VARIES
FILE: SC-ST-EH01-14967
DATE: 09/2025

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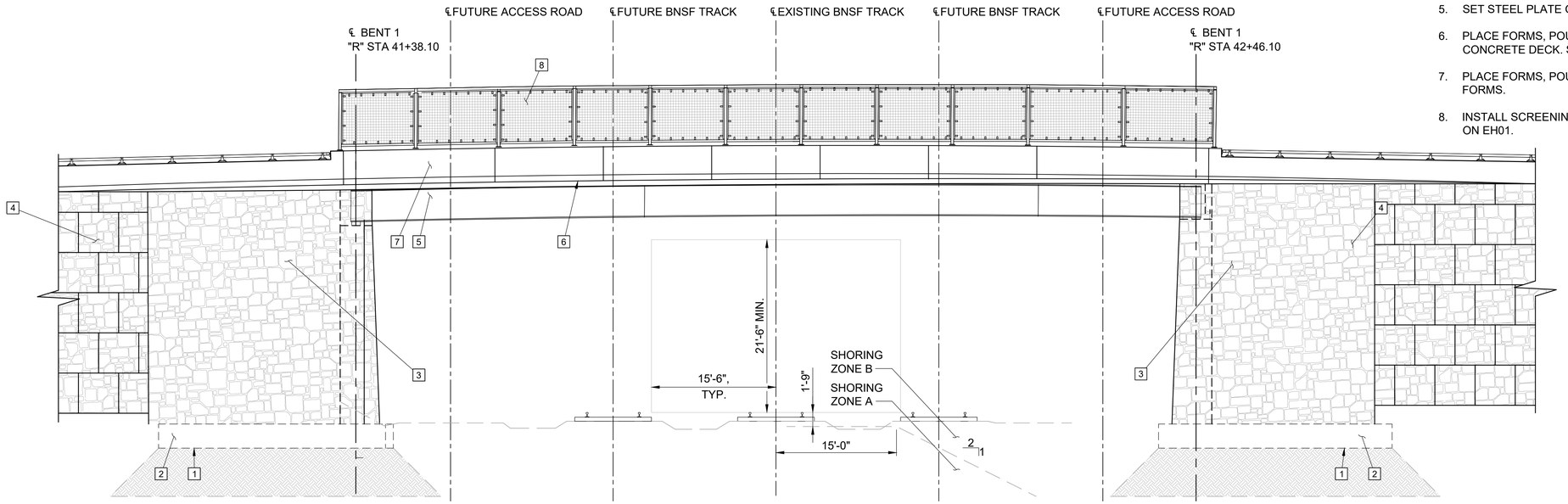
UPDATED

CONCEPTUAL BRIDGE CONSTRUCTION SEQUENCE NOTES:

1. EXCAVATE AND BACKFILL UNDER SPREAD FOOTINGS.
2. POUR SPREAD FOOTINGS.
3. POUR CIP ABUTMENTS AND WINGWALLS.
4. CONSTRUCT APPROACH MSE WALLS AND BACKFILL APPROACHES.
5. SET STEEL PLATE GIRDERS AND CROSS-FRAMES.
6. PLACE FORMS, POUR, AND CURE REINFORCED CONCRETE DECK. STRIP FORMS.
7. PLACE FORMS, POUR, AND CURE BRIDGE RAIL. STRIP FORMS.
8. INSTALL SCREENING AND ILLUMINATION. SEE NOTE ON EH01.



CONSTRUCTION SEQUENCE AND CLEARANCE DIAGRAM (SHOWN PERPENDICULAR TO TRACK CL)

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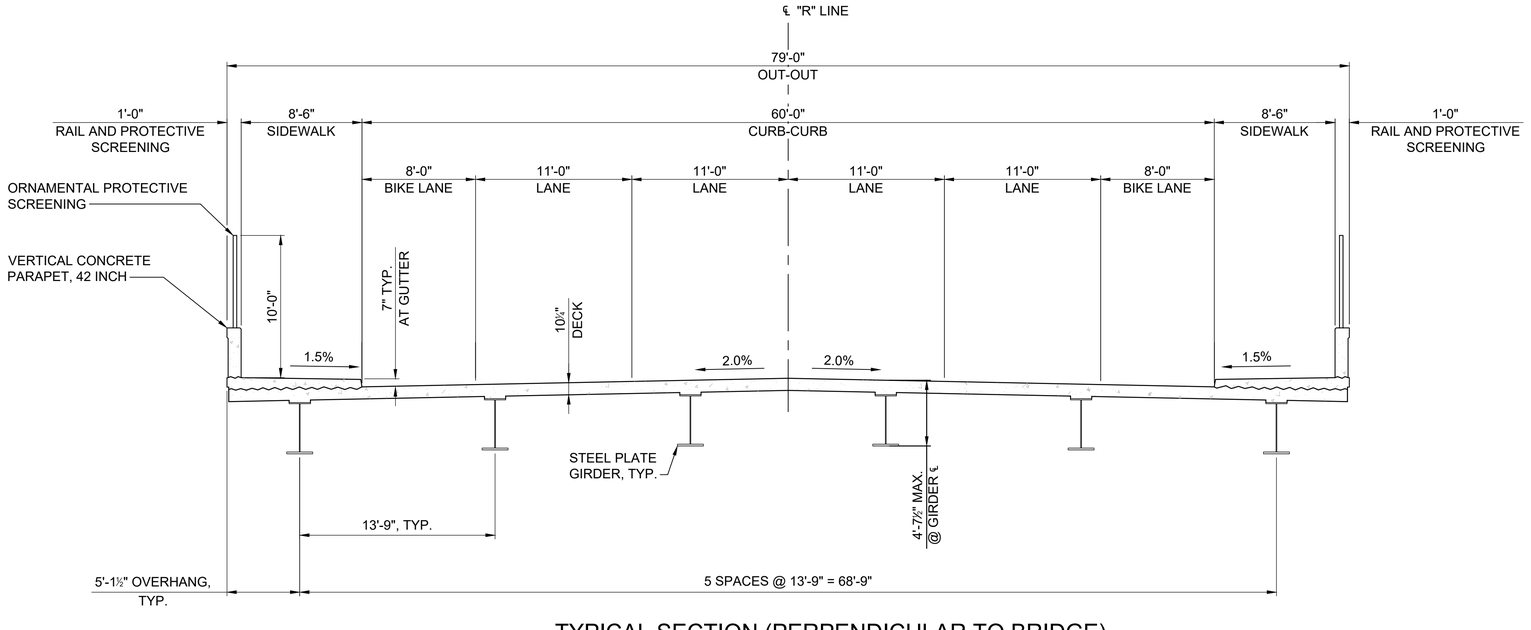

TYPICAL SECTION (PERPENDICULAR TO BRIDGE)

SCALE: 3/16" = 1"

REED MARKET CORRIDOR STUDY

RAILROAD EXHIBIT

DESCHUTES COUNTY, OREGON

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
CONCEPTUAL FOR CONSTRUCTION
NOT FOR CONSTRUCTION
EXPIRES: 06/30/2026

CITY OF BEND

REVISIONS:

DOWL
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772
WWW.DOWL.COM

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MEMORANDUM

TO:	BNSF Railroad
FROM:	DOWL
DATE:	4/17/2025
SUBJECT:	Reed Market/BNSF Bridge Length Memo

Introduction

The purpose of this memo is to outline the request by the project team to construct a bridge which provides the required permanent and construction clearance envelopes by the Union Pacific Railroad – BNSF Railway Guidelines for Railroad Grade Separation Projects (The Guidelines) rather than spanning BNSF Railway's (BNSF) active right-of-way (ROW). This memo discusses the impacts to both BNSF and the City of Bend (City) for different bridge length alternatives. The team's intent is for BNSF to review the information within this memo and attached exhibit to determine whether the proposed span length is accepted.

Background

The city of Bend, Oregon is rapidly growing and east-west travel across town is becoming more congested. Serving as the only connection from SE 27th Street to the west side of the Deschutes River south of Greenwood Avenue, the current at-grade BNSF Railway crossing at Reed Market Road creates delays and safety issues, which amplify the cross-town congestion. The goal of this project is to build a grade-separation structure which reduces congestion on Reed Market Road and provides BNSF with the required horizontal and vertical clearances outlined in The Guidelines.

An undercrossing alternative in which Reed Market Road is lowered under the existing and future BNSF tracks is not preferred at this intersection for multiple reasons:

- A shoofly or new alignment would be required for the existing rail line to allow for excavation of the roadway.
- The rail line crosses the Central Oregon Irrigation District (COID) Canal approximately 1000 feet south of Reed Market Road which would require a new railroad bridge at that location for the shoofly or new alignment.
- The maximum excavation depth would be approximately 24 feet, 10 to 20 feet of which would be into bedrock.
- The retaining walls required along Reed Market Road on the approach to the crossing would need to be cantilevered soldier pile type, which are costly to construct, especially when the piles are founded in bedrock.
- The sag vertical curve alignment of the roadway would create a drainage issue at the crossing.
- The proximity of the COID Canal may be an issue for seepage from the canal into the roadway cut.

South of the crossing, BNSF's ROW extends 50 feet to the west of the centerline of the existing track. North of the crossing, BNSF's ROW extends 100 feet to the west of the centerline of the existing track. The preferred alternative is a steel girder bridge with an 86-foot span, measured parallel to Reed Market Road's alignment, as seen on sheet EH01 of the attached exhibit. This design provides horizontal and vertical clearance for the addition of a future track to the west of the existing track, two future access roads, and provides the minimum permanent and

construction clearances described in The Guidelines rather than spanning BNSF's ROW south of the intersection.

A 182-foot-long design where the Reed Market Road Bridge spans BNSF's active ROW to the north was investigated and found to be impractical. A bridge span of 142 feet would be required to span BNSF's ROW south of the crossing and result in a significant grade raise of Reed Market Road to maintain railroad vertical clearances and accommodate the required increase in superstructure depth of about 18 inches. An 86-foot bridge span, which provides the minimum permanent and construction clearances, is the project team's preferred alternative. This alternative includes easements or sale of BNSF ROW to the City for the bridge footings. The project team believes that BNSF could benefit from the proposed alternative in the following ways:

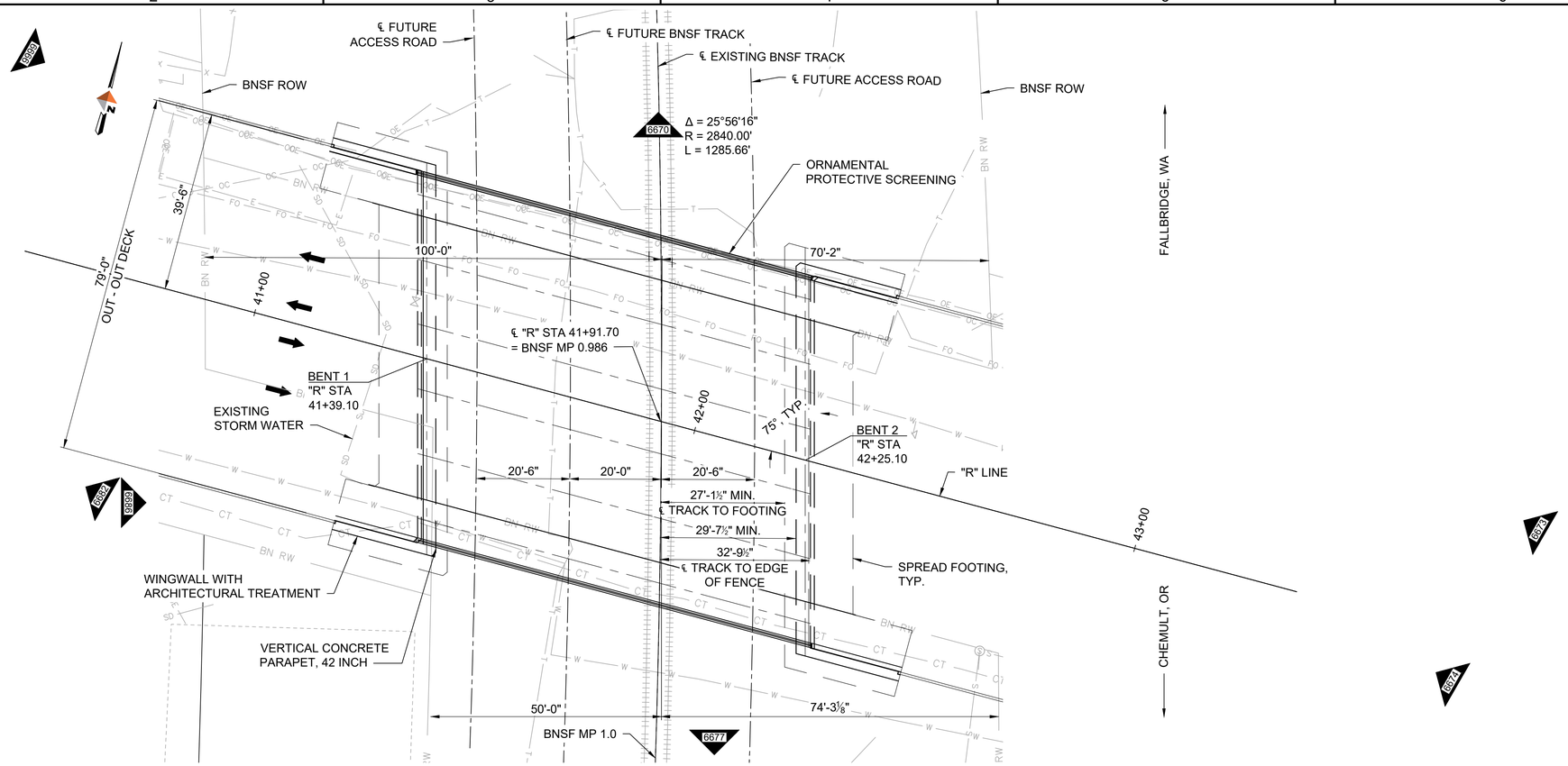
- Decrease the maintenance burden in BNSF right-of-way.
- Decrease or remove the potential for use by unauthorized users or trespassers.
- Decrease the time of bridge construction over BNSF's ROW.

The additional roadway height and span length of the 142-foot span alternative would result in significant additional impractical impacts to City facilities:

- The 142-foot span would likely require raising and reconstructing three traffic signals and one illumination pole at American Lane and construction of additional retaining walls east and west along Reed Market Road due to the increased roadway height along the project corridor. The preferred bridge would require minor roadway regrading at the American Lane intersection with Reed Market Road, and likely only impact one traffic signal.
- The intersection of Reed Market Road and 9th Street would require closure due to the significant grade difference at the intersection, which would result in decreased pedestrian accessibility and safety, increased emergency response times, and major impacts to local business owners. The preferred bridge design can preserve the 9th Street connection and maintain the current level of access to local businesses.
- The 142-foot span would create additional impacts to City and franchise utilities including water, sewer, storm facilities, communications, and natural gas. There would also be increased need for temporary and permanent ROW acquisition.

Conclusion

The project team believes that the preferred bridge length outlined in this memo and shown in the attached exhibit is a mutually beneficial solution that will positively serve both BNSF and the residents of Bend. The team is open to all discussions to help facilitate BNSF's review of this proposal and would be happy to meet in person, on-site, or over the phone to address any questions or concerns.



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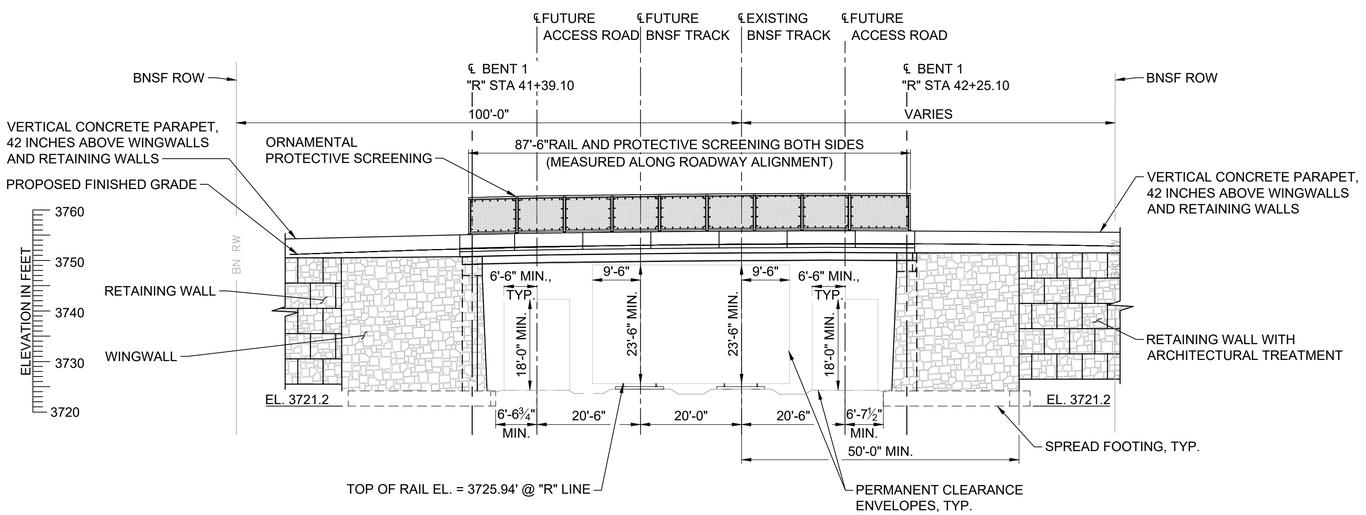

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NOTE: SEE SHEET EH03 FOR CONSTRUCTION CLEARANCE ENVELOPE.

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
TANNER TORKELSON
CONCEPT PLANS NOT FOR CONSTRUCTION
EXPIRES: 06/30/2026

REED MARKET CORRIDOR STUDY

RAILROAD EXHIBIT
DESCHUTES COUNTY, OREGON

CITY OF BEND

REVISIONS:

DOWL
WWW.DOWL.COM
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772

DESIGNED BY: T.T.
DRAWN BY: I.F.
SCALE: VARIES
FILE: SC-ST-EH01-14967
DATE: 04/2025

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CONCEPTUAL BRIDGE CONSTRUCTION SEQUENCE NOTES:

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2. POUR SPREAD FOOTINGS.
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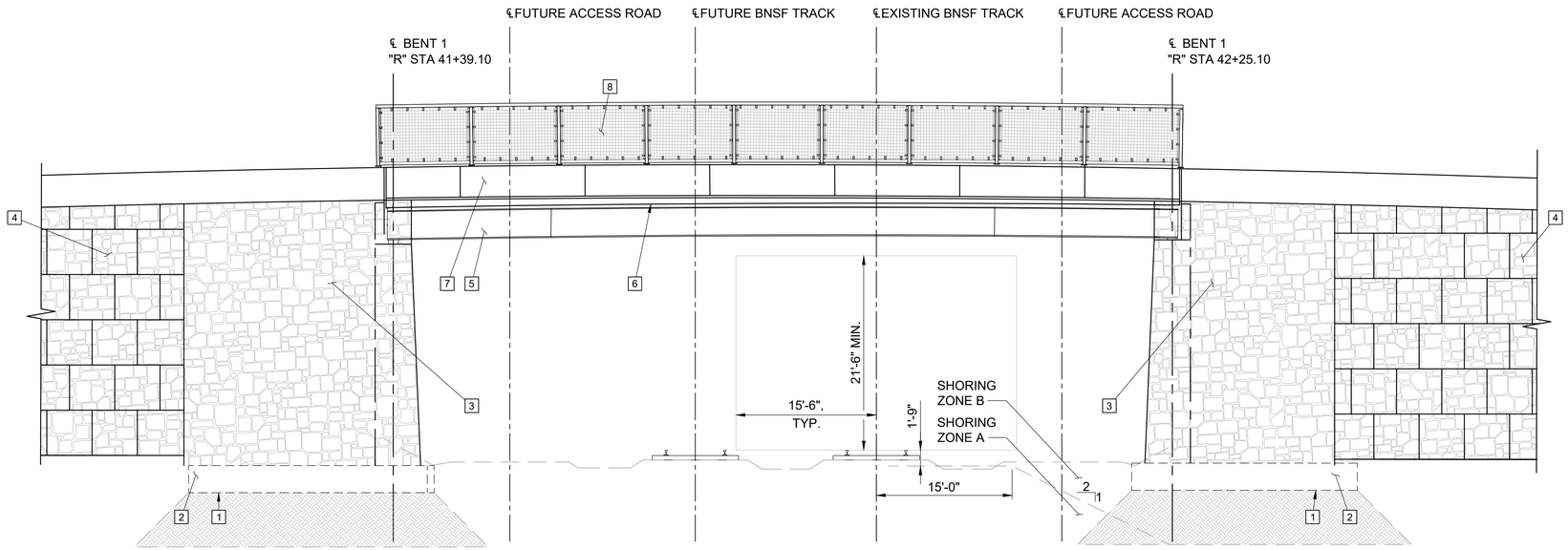

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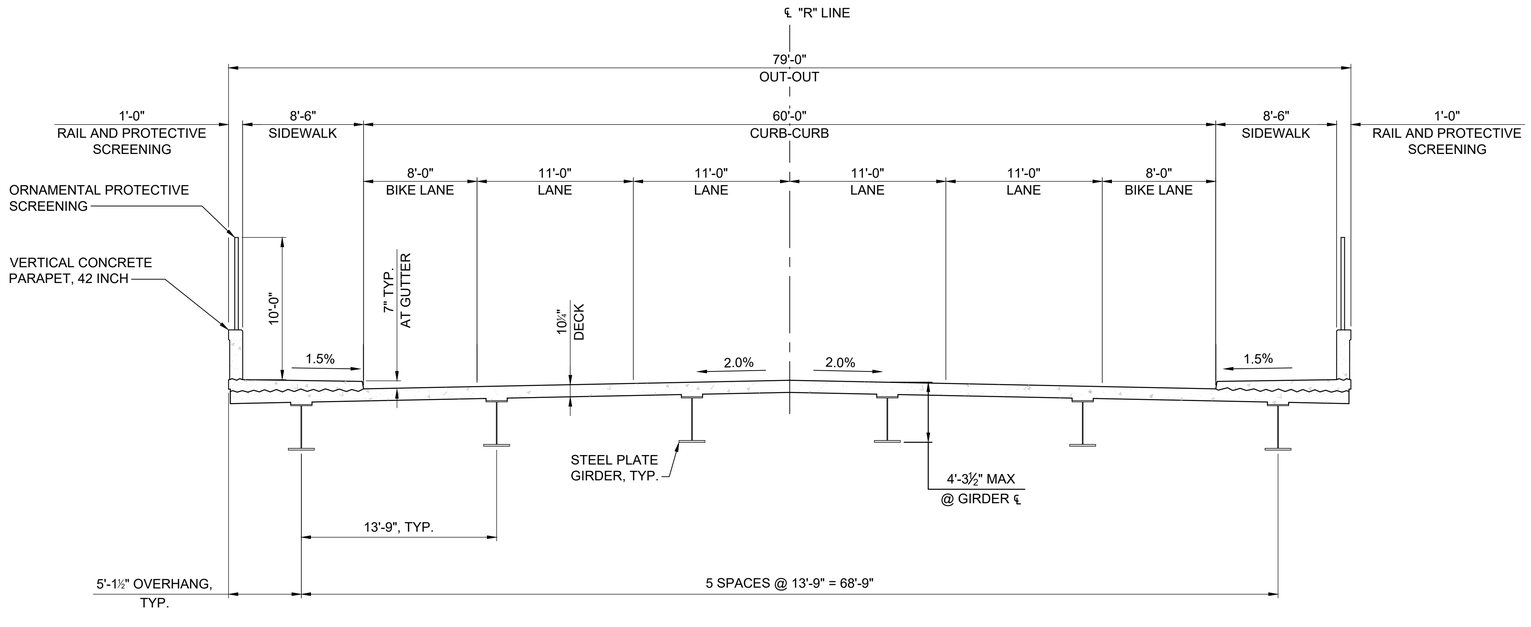

TYPICAL SECTION (PERPENDICULAR TO BRIDGE)

SCALE: 3/16" = 1"

REGISTERED PROFESSIONAL ENGINEER
OREGON
JANUARY 14, 2025
CONCEPTUAL FOR CONSTRUCTION
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JENNER TORKELSON
EXPIRES: 06/30/2026

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WWW.DOWL.COM
963 SW Simpson, #200
Bend, Oregon 97702
541-385-4772

DESIGNED BY: T.T.
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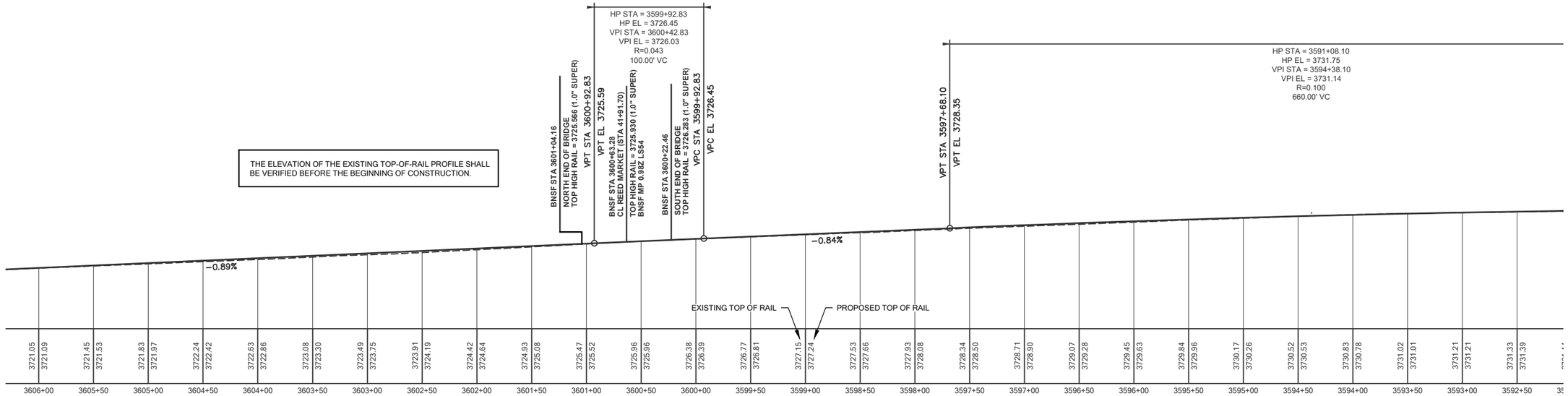
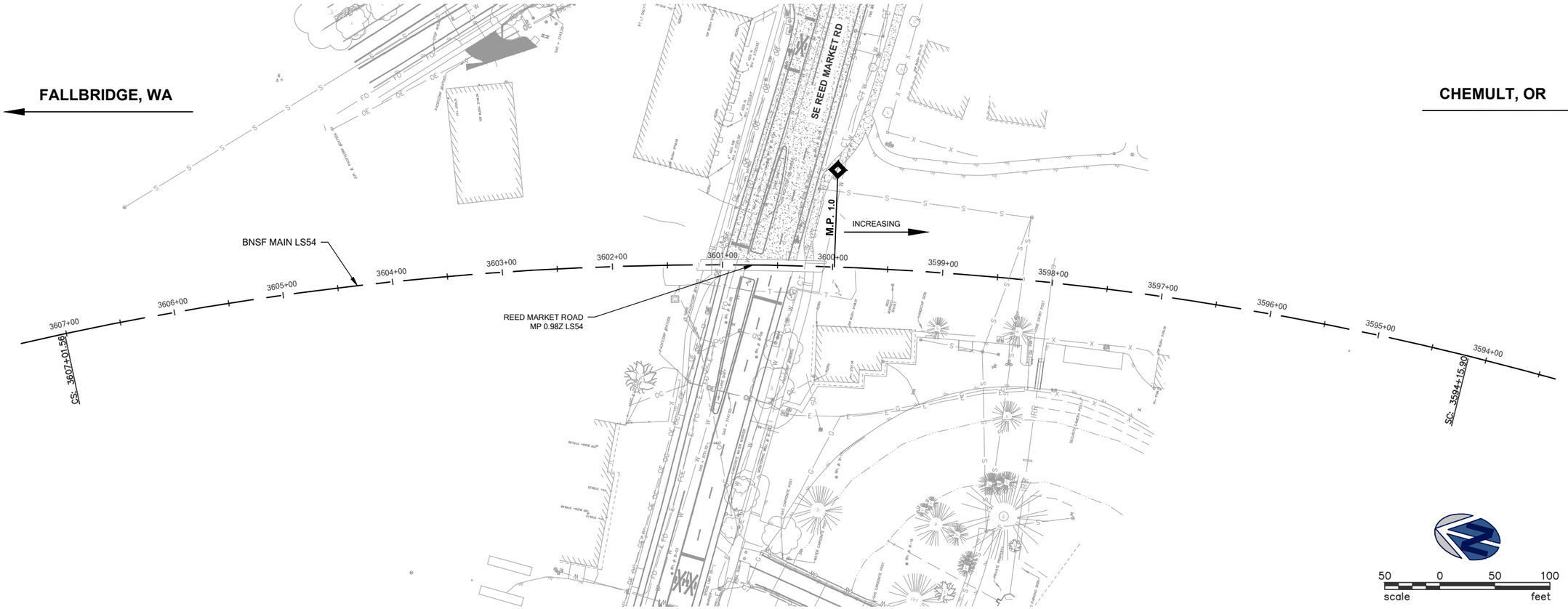


1 R1 TRACK RECONSTRUCTION PROFILE

HORIZ: 1"=50', VERT. 1"=10'

FALLBRIDGE, WA

CHEMULT, OR



2 R1 TRACK RECONSTRUCTION PLAN

1"=50'

PRELIMINARY NOT FOR CONSTRUCTION

REDUCED DRAWINGS - DO NOT SCALE

Thomas W. Wiser, P.E.
22750 SW Miami Drive
Tualatin, Oregon 97062
503 / 691-6095
WISER RAIL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER
15,442
PRELIMINARY
OREGON
MAY 30, 1997
THOMAS W. WISER

EXP: 6/30/26

SE REED MARKET RD CROSSING
BEND, OREGON

TRACK CROSSING PLAN
US DOT# 066832B

CITY OF BEND
OREGON

NO.	REVISION	DATE BY	ISSUED FOR

SCALE: AS SHOWN DATE:
DESIGNED BY: TWW 03/31/25
JOB No: 24014
DWG. NO. R1 OF REV.

Mar 31, 2025 - 9:03am jamcc D:\WRE Files\Project\24014 DOWL Bend Reed Market\dwg\24014 DOWL Bend Reed Market - 10 Mar 2025.dwg

APPENDIX 9:
PERMIT RESEARCH MEMO

TO:	Sinclair Burr, Senior Project Engineer, City of Bend
FROM:	Hope Weaver, Environmental Specialist, DOWL
DATE:	April 21, 2025
SUBJECT:	Reed Market Corridor Study , Project No. 1GRMC

PROJECT BACKGROUND

The City of Bend (City) is undertaking a project to begin preliminary design and environmental review of a proposed grade-separated crossing of the rail line on Reed Market Road. The crossing would take the form of either an underpass or an overpass of the Burlington Northern Santa Fe (BNSF) rail line. Six- to eight trains cross the existing at-grade crossing of Reed Market Road daily, creating traffic delays on one of the city's major arterial roadways. The proposed project would eliminate the at-grade crossing; increase east-west traffic capacity in the city; and improve vehicular, pedestrian, and bicycle safety. The project is partially funded by a Federal Railroad Administration (FRA) Railroad Crossing Elimination (RCE) grant. The remainder of the funding would be from the City's General Obligation (GO) Bond 2020 ballot measure which funds the completion of priority transportation projects throughout the city. Future funding for construction may come from City, FRA or other state and federal sources.

Project Area

The Area of potential impact (API) includes approximately 1500 linear feet (ft) of the Reed Market Road ROW, 950 linear ft of the BNSF right-of-way (ROW), portions of SE 9th Street, American Lane, SE Quill Place, an approximately 350ft segment around the Central Oregon Canal, also known as the Deschutes Irrigation & Power (DIP) Canal. The remainder of the limits of disturbance, also known as the area of potential effect (APE) consist of the 37 tax lots/parcels which abut the roads and ROWs which make up the API. Figure 1 depicts the API, APE, county tax lots, tax lots within the study area, and current landowners.

Environmental Permit Evaluation

DOWL was contracted by the City to evaluate federal, state, and local permit requirements and consultation requirements for the proposed project. Work included a compliance assessment to confirm potentially affected resources, environmental impacts, and mitigation measures have been considered. This technical memorandum documents the sources of information used for permit evaluation, results of the permit research, information about anticipated required permits, and an initial inventory of resources within the API. This memorandum will help inform alternatives analysis and preparation of the National Environmental Policy Act (NEPA) Classes of Action (categorical exclusion, environmental assessment, or environmental impact statement) memorandum.

Map ID	Tax Lot ID
1	181204DC00200
2	181204DC01400
3	181204DC01600
4	181204DC01700
5	181204DC02100
6	181204DC02300
7	181204DD00300
8	181204DD01300
9	181204DD01400
10	181204DD01500
11	181204DD80000
12	181209AA00660
13	181209AA00667
14	181209AA00672
15	181209AA00673
16	181209AA00674
17	181209AA00675
18	181209AA00676
19	181209AA00677
20	181209AA00678
21	181209AA00679
22	181209AA00680
23	181209AA00681
24	181209AA00682
25	181209AA00688
26	181209AA00689
27	181209AB00100
28	181209AB00190
29	181209AB00199
30	181209AB00200
31	181209AB02101
32	181209AB02102
33	181209AB02103
34	181209AB02105
35	181209AB02190
36	181209AB02191
37	181209AB02192

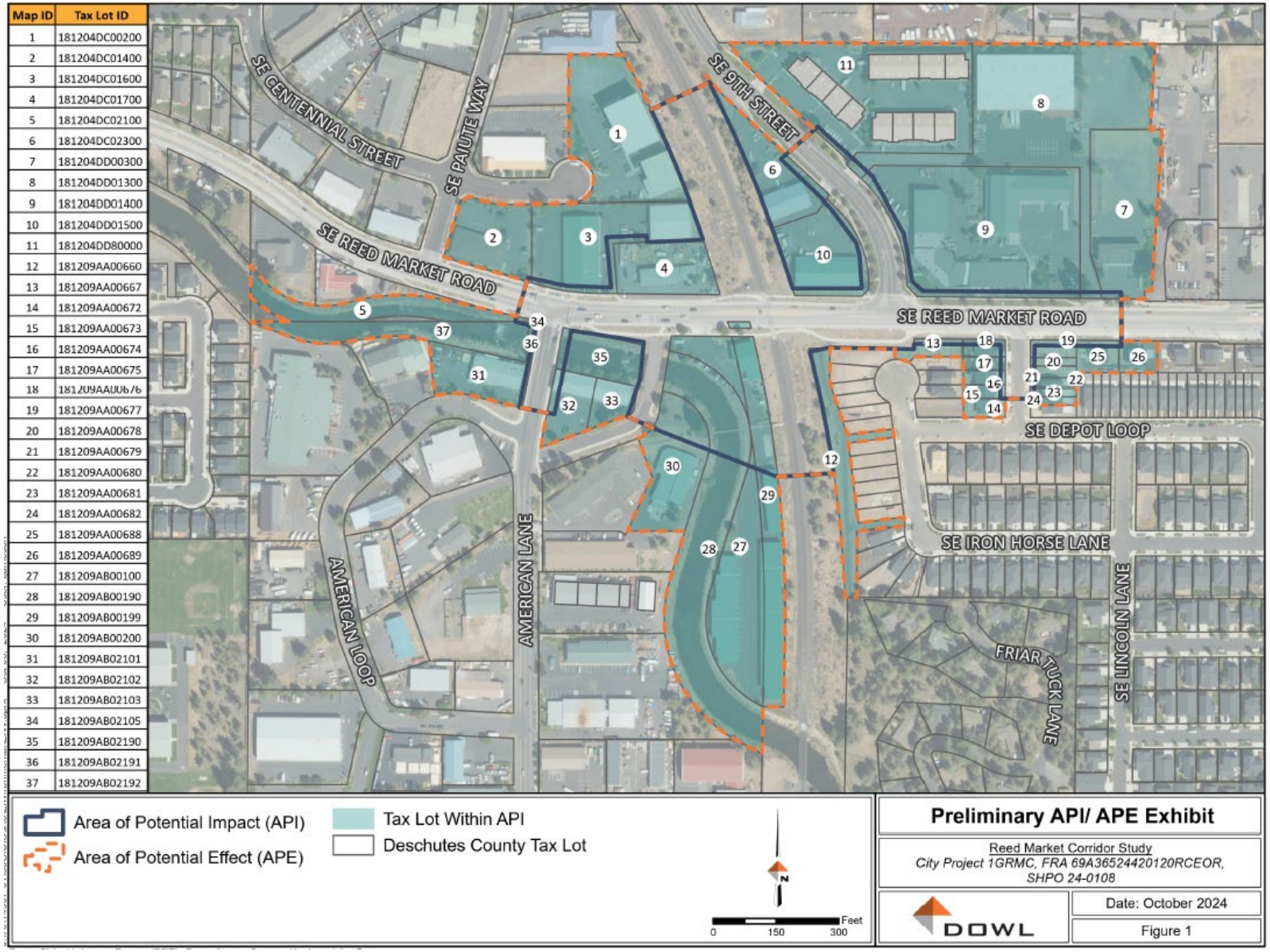


Figure 1: Preliminary API/APE

RESOURCE INVENTORY

Wetlands and Waters

A review of the National Wetlands Inventory[1] (NWI) mapping indicates one perennial riverine water within the API: Central Oregon Canal (also known as the Deschutes Irrigation and Power [D.I.P] Company Canal). The Central Oregon Canal is an artificial irrigation canal that supports several public and private entities throughout the Central Oregon Irrigation District, including the City. The Central Oregon Canal is in the southwest portion of the API. The NWI mapping and Local Wetland Inventory[2] (LWI) mapping do not identify wetlands or other aquatic resources within the API or vicinity.

DOWL's environmental team conducted a field visit on November 4, 2024. During the November 2024 field visit, the Central Oregon Canal was without flow. Irrigation ditches are not jurisdictional under Oregon Administrative Rule (OAR) 141-085-0515(9) if they are operated and maintained for the primary purpose of conveying water for irrigation and if they are dewatered during the non-irrigation season. Field observations confirmed that the canal is without water for part of the year. Therefore, based on the field observations and OAR 141-085-0515(9), the canal is not likely to be jurisdictional to Oregon Department of State Lands (DSL).

However, the Central Oregon Canal is likely jurisdictional to the USACE under 33 Code of Federal Regulation (CFR) 328.3(a)(3). Due to the relatively permanent connection with the Columbia River via the Crooked and Deschutes Rivers and is therefore also a water of the United States.

At this time, it is not anticipated that additional work, beyond what DOWL has currently planned (Refer to Attachment 1 for Scope of Work) and proposed, would be required.

Historic and Archaeological Resources

To determine if previously recorded sites are within the APE or vicinity, DOWL's architectural historian conducted a desktop review of the following databases:

- Oregon Historic Sites (OHS) Database
- National Register of Historic Places (NRHP) Database
- National Historic Landmarks (NHL) Database
- Oregon Archaeological Records Remote Access (OARRA) Database

One NRHP site is recorded within the APE: Central Oregon Canal. The Central Oregon Canal was listed on the NRHP in 1991 for being significant under Criteria A, B, and C per 36 Code of Federal Regulations (CFR) 60.4[3], and received Historic American Engineering Record (HAER) documentation in 1998 (HAER No. OR-63).

[1] U.S. Fish and Wildlife Service. September 2024. National Wetlands Inventory web mapper. U.S. Department of the Interior. Available: https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/. Accessed September 12, 2024.
[2] City of Bend. September 2024. Local Wetland Inventory Maps. Available: https://data.bendoregon.gov/datasets/bendoregon::local-wetlands-inventory/explore. Accessed September 12, 2024.
[3] For details regarding the criteria used to assess NRHP properties please refer to "eCFR :: 36 CFR 60.4 -- Criteria for evaluation" for details.

An additional five NRHP-documented properties were identified within a one-mile radius of the APE. Two properties are eligible for listing in the NRHP: Ortega House at 61540 Parrell Road and the Bend Birth Center at 61533 Parrell Road. The other three documented properties have either been determined not eligible for listing or have since been demolished.

Review of the OARRA database, the NRHP database, and the NHL database indicated no recorded sites, historic buildings, structures, objects, or districts within the APE. One OHS-recorded historic archaeological site was identified within a one-mile radius of the APE. The site is recorded as "Huntington's Wagon Road," per notation on the original State Historic Preservation Office (SHPO) map and has not been evaluated for eligibility to the NRHP. The OARRA database was also reviewed for previous cultural resource surveys in the vicinity of the APE. No previous cultural resource surveys have been conducted within the APE; however, a total of six cultural resource surveys have been conducted within a one-mile radius of the APE.

At this time, it is not anticipated that additional work, beyond what DOWL has currently planned (Refer to Attachment 1 for Scope of Work) and proposed, would be required.

Hazardous Materials

Coles + Betts Environmental Consulting, LLC reviewed the API for potential or reported presence of hazardous materials or substances on behalf of the City in September 2024. The hazardous materials review identified several potential hazardous materials sites including an agricultural/barn structure, listed contamination sites, stormwater retention features, and areas where soil may contain heavy metals, solvents, or other contaminants.

The September 2024 Report concluded that while the majority of the identified sites were of no environmental concern, soil testing/sampling would be required for soil and groundwater (if present) within and adjacent to property at 1110 SE Reed Market Road, soils adjacent to the existing roadway, and soils adjacent to the elevated existing railroad alignment as it is possible that the soil does not meet Department of Environmental Quality (DEQ) Clean Fill criteria. Additional testing at the aforementioned three locations would be required prior to construction. Should contaminated soils or groundwater be present further mitigation will be required. Refer to the September 2024 Report from Coles + Betts Environmental Consulting, LLC for more details.

PERMITS AND COMPLIANCE

Federal Compliance

National Environmental Policy Act

Due to the involvement of federal funds in the form of an RCE FRA grant, the provisions of NEPA (42 United States Code (USC) §§ 4321) applies to the project. As such, in addition to compliance with other federal actions addressed in the sections below, the project would need to include public involvement and stakeholder engagement. The City has a robust public involvement approach which is currently underway to engage members of the community both directly within the APE of the project, as well as those within the larger community of Bend. It is anticipated that the current public involvement approach would be appropriate for compliance under NEPA.

The project has the potential to include several permanent and temporary road closures. The closures could include Southeast 9th Street from Reed Market Road to approximately 500 feet north of the intersection of Reed Market Road; and Southeast 9th Street and Southeast Quill Place from Reed Market Road to just north of the intersection of SE Depot Loop. The potential road closures would

eliminate direct access to Reed Market Road for a number of businesses and residential areas within the project vicinity. Loss of road access and likely increased public interest due to the high-profile nature of the project, would need to be considered during the project development phases and determination of NEPA Class of Action. While a separate NEPA Class of Action memorandum is being prepared by DOWL for the project, it is important to note that FRA is the only entity able to make the final determination on what level of NEPA action would be required to comply with NEPA requirements. At this time, it is not anticipated that additional work, beyond what DOWL has currently planned and proposed (Refer to Attachment 1 for Scope of Work), would be required.

Section 4(f) of the U.S. Department of Transportation Act of 1966

Section 4(f) of the U.S. Department of Transportation (DOT) Act of 1966 (23 USC § 138 and 49 USC § 303) protects the use of land for publicly owned parks, recreation areas, wildlife and waterfowl refuges, and public and private historic sites from federal transportation projects. A review of the City of Bend Parks and Recreation website indicates one potential Section 4(f) resource, the Central Oregon Historic Canal Trail, is within the API. The Central Oregon Historic Canal Trail consists of two sections of trail, the first section extends along the Central Oregon Canal from Blakely Park to American Lane, the second section of trail extends from Southeast 15th Street along the Central Oregon Canal to Ferguson Road. Bend Parks and Recreation mapping indicates the section of sidewalk within the limits of the API is the connection between the two sections of the Central Oregon Historic Canal Trail.

Per Question 15C of the Section 4(f) Policy Paper[4]:

> *"Section 4(f) approval is necessary for the use of a trail, path, bikeway, or sidewalk. If a path or trail is simply described as occupying the right-of-way of the highway and is not limited to any specific location within the right-of-way, a use of land would not occur provided that adjustments or changes in the alignment of the highway or the trail would not substantially impair the continuity of the path or trail."*

The Central Oregon Historic Canal Trail is marked as having a specific location within the right-of-way of Reed Market Road. However, the proposed project does not have the potential to impair the continuity of the Central Oregon Historic Canal Trail. The City of Bend indicated in a November 2024 email that the segment identified within the right-of-way of Reed Market Road is maintained and owned by the City as sidewalk; however, the Parks Department does maintain the right to plow the section of sidewalk as it is noted as a connection in planning documents. As the section of sidewalk is not formally managed by the City as a recreational resource, it is therefore not considered a formal section of trail with a primary recreational purpose. Therefore, the resource has been determined not to be protected under the provisions of Section 4(f) of the U.S. DOT Act of 1966. No Section 4(f) impacts are anticipated to the Central Oregon Historic Canal Trail, or any other resource receiving protections under Section 4(f).

Endangered Species Act

A list of US Fish and Wildlife Service (USFWS) species listed under the Endangered Species Act (ESA) (7 USC § 136 and 16 USC § 1531) with the potential to be in or near the API was generated using the USFWS Information for Planning and Conservation (IPaC) website. The IPaC database identifies three threatened and endangered species (TES): gray wolf (*Canis lupus*), yellow-billed cuckoo (*Coccyzus americanus*), and northwestern pond turtle (*Actinemys marmorata*). IPaC also identifies one candidate

[4] FHWA. (2012, July 20). *Section 4(f) Policy Paper.* Retrieved November 2024, from FHWA Environmental Toolkit: FHWA | Environmental Review Toolkit | Section 4(f) Legislation

species, the monarch butterfly (*Danaus plexippus*). No designated critical habitat is present within the API. Based on a desktop review and evaluation of site conditions, the project does not contain suitable habitat for any of the above-listed TES or candidate species. During the November 2024 field visit, none of the identified TES or evidence of TES were observed. DOWL will develop a No Effect memorandum to discuss the potential for occurrence of each TES within the API. It is anticipated that no additional coordination or compliance with USFWS would be required.

National Historic Preservation Act Section 106

FRA grant funding is subject to compliance with the Section 106 review process per the National Historic Preservation Act (NHPA) of 1966. Section 106 requires federal agencies to consider the effects of a potential project on historic properties. Consultation is required with Oregon SHPO, local tribes, and public interest parties.

To date, DOWL has completed a desktop review for cultural resources, including both the archaeological and built environment, and have recommended that no further field work or studies are needed at this time; however, the Oregon SHPO has the final determination on whether or not additional documentation is needed to complete the Section 106 process.

US Army Corps of Engineers, Clean Water Act Section 404

The USACE administers and enforces the Section 404 of the Clean Water Act (CWA), regulating the discharge of fill materials into waters of the United States, as defined in CFR 33 Part 328 and subsequent guidance. It is anticipated that the Central Oregon Canal is a jurisdictional water; however, the project is not anticipated to impact jurisdictional waters as currently proposed. Therefore, Section 404 authorization from USACE is not needed. Work above waterways is not regulated by Section 404. Therefore, the project would not require a USACE permit.

At this time, it is not anticipated that additional work, beyond what DOWL has currently planned and proposed (Refer to Attachment 1 for Scope of Work), would be required.

State Compliance

Department of State Lands Removal – Fill Permit

DSL regulates removal and fill activities within jurisdictional waters of the state. Jurisdictional waters of the state are defined in OAR 141-085-0510(95). A permit is required if project activity will involve filling or removing 50 cubic yards or more of material in a wetland or waterway. The project is not anticipated to impact wetlands or waterways; therefore, no removal-fill permit is required.

Oregon Department of Environmental Quality – National Pollutant Discharge Elimination System 1200-C Permit

Pursuant to the CWA Section 402, DEQ issues National Pollutant Discharge Elimination System (NPDES) permits for stormwater discharges to surface waters from construction sites with greater than one acre of ground disturbance. The exact amount of ground disturbance anticipated by the proposed project is unknown at this time. However, should ground disturbance exceed one acre, an NPDES 1200-C permit would be required. NPDES 1200-C permits have an approximately 30- to 60-day review period with DEQ. The permit would need to be approved prior to initiation of construction.

Oregon DEQ – CWA Section 401 Certification

The Central Oregon Canal has been determined to be jurisdictional; however, the project, as currently proposed, would not result in impacts to a jurisdictional waterway. Therefore, a CWA Section 401 Certification and compliance with CWA Section 401 Certification and DEQ submittal guidance would not be required for the proposed project.

Local Compliance

City of Bend Grading Permit (Bend Municipal Code 16.10.010.A.1)

DOWL anticipates a city grading permit would be required as the project involves the regrading of a city-owned street with adjacent water bodies and storm drainage facilities. The City of Bend Municipal Code (BC) 16.10.010.A.1 describes the grading permit requirements. Compliance with a grading permit assures a project accounts for potential migration of sediment and construction-related pollutants. Per BC 16.10.020.B.3, permittees must provide the City with a site map and grading plan to include:

- Existing and proposed site topography
- Property boundaries
- Location/graphic representation of drainage facilities, both natural and artificial
- Points of entry/access roads
- Locations of existing trees and proposed tree status (preservation/removal)
- Locations of buildings/structures that may be affected by proposed grading operations.

In addition, a grading permit requires development of an erosion and sediment control plan (BC 16.10.020.B.5, pursuant with BC 16.35.030) and a soils and geological reconnaissance report by an Oregon-licensed professional engineer (BC 16.10.020.B.6). During these preliminary steps of the design process, the DOWL development team will meet with the City for their initial take on the need for a local grading permit and to discuss exemptions and potential triggers for local permitting review.

City of Bend Tree Permit (BC 3.60.040)

A City Tree Permit is required if the project requires removal or pruning of any trees. Tree permit requirements are outlined in BC 3.60.040. Construction activities within 15 feet of a tree on City property must have protective measures to avoid harm to trees if trees can be preserved (BC 3.60.060). Three trees occupy City right-of-way within the immediate API and would be subject to BC 3.60.040. The requirements of the tree permit may be satisfied by plans developed during application for the grading permit (BC 16.10.010.A.1). Therefore, a separate tree permit may not be required and this will be confirmed in future project phases.

Other – City Special Planned Districts

DOWL further reviewed the project site for potential overlap with any City Special Planned Districts which would require additional design considerations, including:

- Waterway Overlay zone
- Riparian Corridor sub-zone

- River Corridor Areas of Special Interest sub-zone
- Upland Areas of Special Interest sub-zone

The project site does not overlap any Special Planned Districts; therefore, no additional work is required in regard to City Special Planned districts.

CONCLUSION

The project would provide a grade-separated crossing of the BNSF railroad corridor along Reed Market Road while minimizing environmental impacts to the extent possible. DOWL has researched applicable codes and regulations to determine potential required project-related permits and clearances based on current federal, state, and local regulations and the best information at the time the research was conducted. All applications and permits anticipated to be required are listed in Table 1. Information contained within this memorandum is preliminary and is subject to change. Coordination with staff at various agencies is needed to confirm and verify permit requirements and associated fees prior to application preparation and submittal.

Table 1: Permit and Compliance Submittal Requirements

PERMIT	AGENCY	TYPICAL REVIEW PERIOD OR TIMELINE	Currently Scoped?
FEDERAL			
NEPA Decision Document	FRA	Unknown – review periods would depend on NEPA class of action applied for the proposed project. The NEPA Class of Action Memo will be completed Summer 2025, following approval from FRA, the NEPA documentation process will be initiated. Should the project move forward as an environmental assessment (EA) a maximum of 2 years should be allotted for completion of the NEPA Document, should the project be categorically excluded from NEPA a Categorical Exclusion could be prepared and approved within 6 to 9 months following 30% design in Fall 2025.	Yes – DOWL is currently planned to complete both the NEPA class of action memo (Summer 2025) and NEPA document (Summer 2026/Spring 2027).
Section 4(f) Use (*De Minimis* Use or Temporary Occupancy)	FRA	Unknown – consultation with the City and Bend Parks and Recreation must first be completed to determine whether or not Section 4(f) applies. Section 4(f) documentation would be completed consecutively with the NEPA documentation following approval of the Class of Action Memo in Spring 2025.	No – DOWL is not currently planned to complete Section 4(f); however, these documents could be completed as part of the original planned NEPA documentation.
No Effect Memorandum (Section 7 of the Endangered Species Act)	N/A	The No Effect Memo does not need to be submitted to any agency and is used as a letter to file and as supporting documentation in the NEPA process, as needed.	Yes – DOWL is currently planned to complete the No Effect Memo at 30% design.
Finding of Effect (Section 106 of the National Historic Preservation Act)	SHPO	If the design results in impacts to the canal, a Finding of Effect will need to be prepared. Once submitted to SHPO, approval is estimated to take 30 days.	Yes- DOWL is scoped to provide recommendations of effects to historic properties. Work will be completed when sufficient design information is

			available following alternatives analysis.
STATE			
Hazardous Material Soil Testing	Oregon DEQ	Soil and groundwater testing should be completed Spring 2025 and is weather dependent. Work would be completed approximately 90-days after field work is completed.	Yes – DOWL has a contingency that would need to be released for completion of the Hazardous Materials Soil Testing.
1200-C Permit	Oregon DEQ	1200-C permits typically take 30-60 days to complete once submitted to DEQ.	No- the DOWL team is not scoped obtain this permit. It should be obtained during final design.
LOCAL			
City of Bend Grading Permit (BC 16.10.010.A.1)	City of Bend	Must be obtained a minimum of 48 hours prior to ground-disturbing activities and remains valid throughout construction of the project. Permit holders are subject to compliance inspections any time during construction.	No - the DOWL team has not planned to complete the local grading permit; this permit would be the contractor's responsibility.
City of Bend Tree Permit (BC 3.60.040)	City of Bend	Permits would be the contractor's responsibility and are valid for 90 days following approval from the City.	No - the DOWL team has not planned to complete the local grading permit; this permit would be the contractor's responsibility.

Attachment 1: Scope of Work

EXHIBIT A
SCOPE OF WORK
Reed Market Corridor Project
City Project: 1GRMC

Background

In 2020, Bend voters passed a $190-million-dollar GO Bond to complete priority transportation projects throughout the City. One of the cornerstone projects that led to the GO Bond measure passing was the promise of a grade-separated crossing of the BNSF rail line on Reed Market Road. Currently, six to eight trains cross Reed Market Road each day, which creates delays between five and 20 minutes, leads to increased greenhouse gas emissions, compromises Emergency Management Services (EMS) response times, and presents an omnipresent safety concern. Eliminating this at-grade crossing will increase both E-W traffic capacity for the City and improve multimodal safety along this busy traffic corridor. This project, which is being partially funded by an FRA Railroad Crossing Elimination (RCE) grant, is the first step to improving this crossing, and will lead to 30% design documents and a NEPA decision document to support construction of the grade separation project.

Objective

The purpose of this project is to conduct preliminary design and environmental review to grade separate Reed Market Road from the BNSF railroad. The approximate project limits are from American Lane to Quill Place. This scope of work includes all anticipated services needed to gather required information to complete alternatives analysis, complete the FRA NEPA review, progress to a 30% design package, and assist the City with public involvement efforts.

Anticipated Project Schedule

NTP	8/1/2024
Project Work Plan	8/30/2024
Permit Strategy Memo	11/1/2024
Class of Action Decision Memo	2/1/2025
Alternatives Analysis Report	2/1/2025
Draft TS&L/ Preliminary Design Report	8/1/2025
30% Design	11/1/2025
FRA Performance Period End Date	1/31/2026

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General Assumptions:

- *Design plans will be developed using AutoCAD Civil 3D and City drafting standards. 100% plan submittals will be in electronic and hardcopy format.*
- *Survey file submittals (monumentation, horizontal and vertical control, ROW plans) will be in AutoCAD Civil 3D format*

Scope of Services

Task 1 *Contract Administration & Project Management Support*

Objectives:

Manage and coordinate the tasks included in this scope of services. Coordinate with the City of Bend (City) on work tasks. Provide Quality Control (QC) such that deliverables submitted to the City have been peer-reviewed prior to submittal. Submit written progress reports of professional service activities monthly and prepare monthly progress reports and progress billings in a format approved by the City.

1.1 Project Management and Administration

The purpose of this task is to provide proactive communication and coordination required to successfully complete the services within the agreed upon budget and schedule. Schedule and coordinate tasks within this scope of services and maintain coordination with the City. Prepare and maintain project management plan. Communicate regarding the status of work being performed and to discuss issues or concerns that may impact the Project. Monitor the Project budget and expenditures. Provide subconsultant oversight. Maintain Project files to include engineering computations, assumptions, meeting agendas and minutes, business drawings, correspondence, and memoranda.

Develop a Project Quality Plan (PQP) for the services covered by this scope of services. The PQP shall describe the review process and schedule used for each deliverable. Design checks will be completed under individual discipline tasks. Senior and Constructability reviews will be completed as part of the milestone deliverable tasks (2.4.6 and 2.5.6 below).

Prepare and maintain a project schedule. The schedule will provide appropriate milestones for each task and phase for review monthly.

Prepare monthly progress reports in a format approved by the City. The progress report will summarize the activities completed and deliverables submitted by task for the reporting period. The progress report shall identify schedule or budget issues and if there are pending issues that need resolution. The progress report shall be included with the monthly invoice.

- Prepare monthly invoices
- Prepare monthly progress reports
- Prepare and administer sub-consultant contracts

Deliverables/Schedule:

- Initial project schedule will be provided to the City within one (1) week of first meeting following signed contract.
- Project Work Plan
- Progress reports and invoices submitted electronically to the City on a monthly basis, following the reporting period.
- PQP available for review upon request.

1.2 Meetings

Prepare for and attend meetings as identified below. Prepare a meeting agenda and provide draft meeting notes for each meeting, which will include draft action items and record of any decisions from the meetings. Prepare and maintain a Project Action Item/Decision Log to track action items and decisions discussed at Project meetings. Provide the draft summary notes to the City for review and distribution. The following are anticipated meetings:

- Design Kick-Off Meeting
- Monthly check-in meetings
- Design Work Sessions
- Review workshops at Milestone reviews.

Assumptions:

- Attend one (1) design kick-off meeting. Date to be determined following contracting. For estimating purposes, it is assumed six design staff will attend the meeting, which will be no more than two (2) hours in length. Microsoft Teams Meeting is assumed.
- Prepare for and attend monthly project management meetings with the City PM. For estimating purposes, it is assumed two (2) staff will attend the meeting, which will be one (1) hour in length. Microsoft Teams Meetings are assumed.
- Prepare for and lead up to eight (8) targeted design work sessions with the city. Each meeting is assumed to be up to one hour in length and it is assumed up to four (4) staff will attend the meeting). Microsoft Teams Meetings are assumed.

-
- Prepare for and attend 2 milestone review meetings with the City PM. For estimating purposes, it is assumed three (3) staff will attend the meeting, which will be one (2) hour in length. In person Meeting is assumed.
-

Deliverables/Schedule:

- Provide meeting agenda electronically to the City PM one (1) business days prior to date of the meeting
- Attend and participation at the meeting as required by the City;
- Draft summary notes (including action item/decision log) within five (5) business days of meeting (1 electronic copy)

Task 2 *Preliminary Engineering*

The preliminary engineering effort is focused on developing a preferred alternative for the railroad crossing that best meets the project objectives. Task includes the necessary field work and studies to support the alternatives analysis, select a preferred alternative, describe project impacts, and complete the NEPA phase.

2.1 Survey

The DOWL team will provide all surveying and mapping needs for the Project along the Reed Market Corridor. We will establish a Horizontal and Vertical Control network and provide topographic surveying, Monument Recovery, Centerline Resolution. This is an International Foot unit project.

We will ensure all deliverables are reviewed and approved by our Professional Land Surveyor (PLS), registered in the State of Oregon.

2.1.1 Horizontal and Vertical Control Network

The horizontal datum used by the team must be the Central Oregon Coordinate System (COCS). The vertical datum used must be NGVD 29. We will establish primary geodetic control monuments (such as 5/8-inch iron rod with plastic cap or other permanent markers) and maintain line of sight throughout the entire Project limits. These control monuments must be placed in locations such that they can be used during construction. Secondary Control points used to develop survey surface model in non-critical areas must be no more than one (1) “shot” out from a network control point.

We will run digital level loops to control points that are used in preparing the Civil 3D surface model.

Deliverables:

- Incorporate information from this task into the deliverables listed in Task 2.1.3 as required for delivery of documents in subsequent tasks.

2.1.2 Monument Recovery

Provide labor, equipment, and materials to perform a search of survey records on file with Deschutes County to perpetuate the location of monuments that may be disturbed or destroyed during a future construction project. Research deeds and surveys of record, including but not necessarily limited to property surveys, county road surveys, original county road resolutions, and section corner surveys. Provide to the City the following items:

- Tax assessor maps
- Property deeds

Copies of all pertinent survey documents, survey found property corners, Government Corners, other survey monuments, property line fences, and lines of occupation within the limits of the Project. Provide at least one (1) PLSS corner tie.

Keep copies of the research data collected such as surveys, deeds, assessors' maps, county road maps, government corner surveys, etc., in the Project file.

Deliverables:

- Incorporate information from this task into the deliverables listed in Task 2.3 as required for delivery of documents in subsequent tasks.

2.1.3 Location Survey, Base Map, and Surface Model

Perform a topographic survey for the proposed improvements to Reed Market Road. Determine location and extent of surveying necessary to complete the design work. Our scope of work assumes that the topographic survey limits and project APE are shown in figure 1

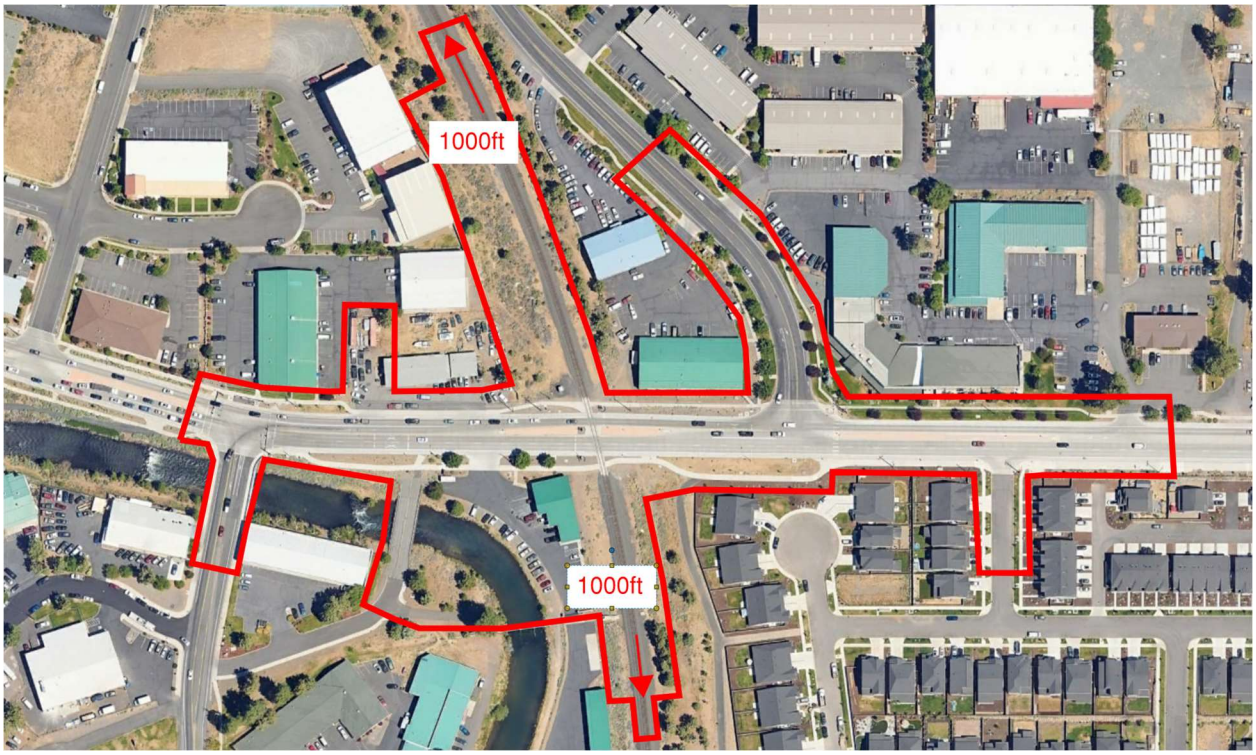


Figure 1. Approximate Survey Limits and Project APE

Survey existing surface features, including but not limited to irrigation features, curbs, sidewalks, face of buildings, pedestrian poles, controller cabinets, fences, utilities, valve boxes, ditches, driveways, structures, culverts, trees, and signs within areas selected for topographic surveys. Collect type, size, and location of all underground facilities, including invert elevations on sanitary, storm sewers manholes, and valve boxes.

Survey the existing centerline and edges of the road with elevations consistent with the Project vertical datum. We will tie trees six-inches or larger in diameter at chest height.

Gather the field data necessary to show utility locations in the base mapping for the roadway design. Schedule underground utilities to be marked in the field (known as “field locates”) within, and two hundred (200) feet beyond, the immediate Project area as identified. Use the statewide “One Call” utility notification system and submit several “pre-survey” locate request to. Utility maps will be requested with multiple smaller “pre-survey” locates three weeks prior to the commencement of fieldwork. Additionally, a field visit will be performed to confirm that all utilities were marked based on the maps provided. Any discrepancies found between the maps and the locates will be noted in the basemap. All utility operators with buried facilities subscribe to the One Call system (OUNC-Oregon Utility Notification Center). When surveying marked lines, we will record in the field notes the utility ownership when describing the line data points. All non-tangent markings must be tied (i.e. survey shots must be of sufficient frequency to accurately record each facility’s alignment and deviation).

Record all visible utility identifications in the field notes. Such numbers shown on power and/or telephone poles, vault tags, telephone pedestals (a.k.a. risers), cabinets, meters, fences or screened enclosures for gas regulators, and sanitary sewer pump stations are examples of what

is needed for the Client or the team to communicate with the utility operator regarding any facility that may be in conflict with the Project.

Measure and record all sanitary and storm sewer manholes, and inlets (or catch basins) invert elevations. Take elevations on rims of manholes, inlets, and valve and meter boxes, as well as the top of all exposed pipes. Obtain and document invert elevations of culverts in the field notes along with a sketch, description (type, size, and condition), and location of all pipes. Make field sketches of manhole/inlet dips showing connecting pipe configurations. Measure and record all utility facility structures (e.g. concrete pads, top slab of vaults, pump station housing, barrier screens, or fenced enclosures).

The surface model must depict the actual surface shape in each section. We will use a combination of survey data at break lines, features, and spot locations to develop the surface model. The topographic survey is made to establish the configuration of the ground and the location of natural and manmade objects.

Perform BNSF right of way survey 1000' feet in each direction of the intersection with Reed Market Road, including but not limited to the top of rail, signs, culverts, utilities, and structures that may be crossing the right of way corridor.

Assumption:

- DOWL to prepare and mail right of entry survey notification letters utilizing City template
- Survey of BNSF tracks may require railroad flagging, which will be paid for by the city.
- DOWL will use 3D scans, where possible, to locate railroad track profile, however access to the railroad right-of-way may be necessary and will be completed at a later date once necessary approvals are completed.

Deliverables:

Provide the following deliverables in the Project files and shall submit them to the Client within eight (8) weeks of Notice to Proceed (NTP):

- One (1) electronic copy of the field notes
- An AutoCAD/ Civil 3D 2020 (.dwg) version of the Base Map and Civil 3D surface model files
- An electronic (.pdf) version of the based map and surface.
- Confidence Point Report

2.1.4 Monument Recovery Survey

Provide all labor, equipment, and materials to perform a search of survey records on file with the Deschutes County Surveyor. Research deeds and surveys of record, including, but not necessarily limited to, all property surveys, county road surveys, original county road

resolutions, section corner surveys, and DLC surveys. This includes providing copies of tax assessor maps and survey records.

Found property corners, property line fences and other lines of occupation will be surveyed. Survey the Public Land Survey System ("PLSS") corners as needed for the Project to create ROW descriptions and the filing of the survey. These monuments will be tied through a control point or side traverse or by RRVID approved methods. Place intersecting property lines on the Base Map using surveys, deeds and assessor's maps to represent property boundaries. Place the property lines using angular relationships utilizing deeds and survey data collected. This data will be used later to prepare a Horizontal Control, Monument Recovery and Retracement Survey to Deschutes County standards and record the survey with the Deschutes County Surveyor's office.

Assumption:

- City will be responsible for payment of any associated fees.

Deliverables:

- File a Horizontal Control, Monument Recovery and Retracement Survey with the Deschutes County Surveyor's Office within twelve (12) weeks of NTP.

2.2 Geotechnical Design Services

Consultant shall perform preliminary geotechnical design for the proposed SE Reed Market Road improvements between American Lane and SE 15th Avenue. This scope includes geotechnical investigations and design for bridges, retaining walls, and cut and fill slopes. Tasks related to preliminary geotechnical design will include subsurface investigations, laboratory testing, geotechnical analysis, and a geotechnical report. Final geotechnical design and review of plans and specifications are not part of this scope. Tasks related to final geotechnical explorations, design and review of plans and specifications will be provided for the final design phase. Consultant shall perform the preliminary geotechnical design in accordance with the latest AASHTO LRFD Bridge Design Specifications and the ODOT Geotechnical Design Manual (GDM).

2.2.1 Data Review / Site Reconnaissance

Consultant shall perform site reconnaissance and review available existing information to evaluate the following:

- Geologic conditions and hazards at the proposed Project site, such as geologic units, historic land use, and fill materials;
- Existing published and unpublished literature from City or County records (as applicable);
- Previous geology and/or geotechnical reports from the City, federal, county, or other officials, consultants, groups, or individuals pertinent to the Project (as applicable); and
- As-built roadway plans (as available from neighboring sites)

Conduct a geologic and geotechnical reconnaissance of the site consisting of up to one (1) site visit. Identify the following:

- Geologic conditions at the Project site, any geologic hazards present and their impacts to the proposed Project elements;
- Surface conditions that may be indicative of subsurface conditions of concern, as well as past or ongoing geologic processes (e.g., areas of seeps or springs, erosion, unstable slopes, shallow groundwater, roadway settlement, offsets and depressions, existing earthwork performance, exposed soil and bedrock units);
- Site constraints, staging concerns (for exploration and construction);
- Potential exploration and/or monitoring locations; and
- Boring locations, which will be marked with stakes or paint on the ground.

Deliverables and Schedule:

- Incorporate information from this task into the deliverables listed in Task 2.2.6 as required for delivery of documents in subsequent tasks.

2.2.2 Exploration and Testing Work Plan (ETWP)

Consultant shall prepare an Exploration and Testing Work Plan (ETWP) prior to beginning field work. No field work is to be performed, other than initial site reconnaissance, before review and approval by City of the ETWP.

The ETWP shall address the proposed drilling (borings and test pits), locations; site access; outlining the exploration and sampling procedures; laboratory testing plan; safety plan; and the traffic control plan.

Coordinate with the City regarding access to the project site. Obtain ROW permit from the City for the explorations in City ROW. It is assumed all explorations except for one boring will be in City ROW. Coordinate with the City to identify private property access needs for the City to negotiate access

Deliverables:

- Exploration and Testing Work Plan within four (4) weeks of NTP.

2.2.3 Geotechnical Explorations

Consultant shall perform the geotechnical field explorations and reconnaissance at locations for bridge bents, retaining walls, and other geotechnical features to evaluate subsurface conditions and develop geotechnical recommendations for design. The actual type, number, and depths of the subsurface explorations must be conducted in accordance with the GDM and the approved ETWP, as described in Task 2.2.2. The estimated number and depths of borings for each feature are shown in the table below for planning and budgeting purposes.

FEATURE	EST # OF BORINGS	ESTIMATED BORING DEPTH (Feet)	TOTAL DEPTH (Feet)
Bridge Over-Crossing Railroad	4	40[1]	160
New Bridge Over-Crossing at the Canal	2	40[2]	80
Retaining walls (tall walls)	4	50[3]	200
Retaining walls	8	30[4]	240
Ground Penetration Radar (GPR)	6	N/A	2,400 (ground length)
PIT Infiltration Tests	2	Up to 5 feet depending on anticipated elevation of bottom of infiltration facility	10

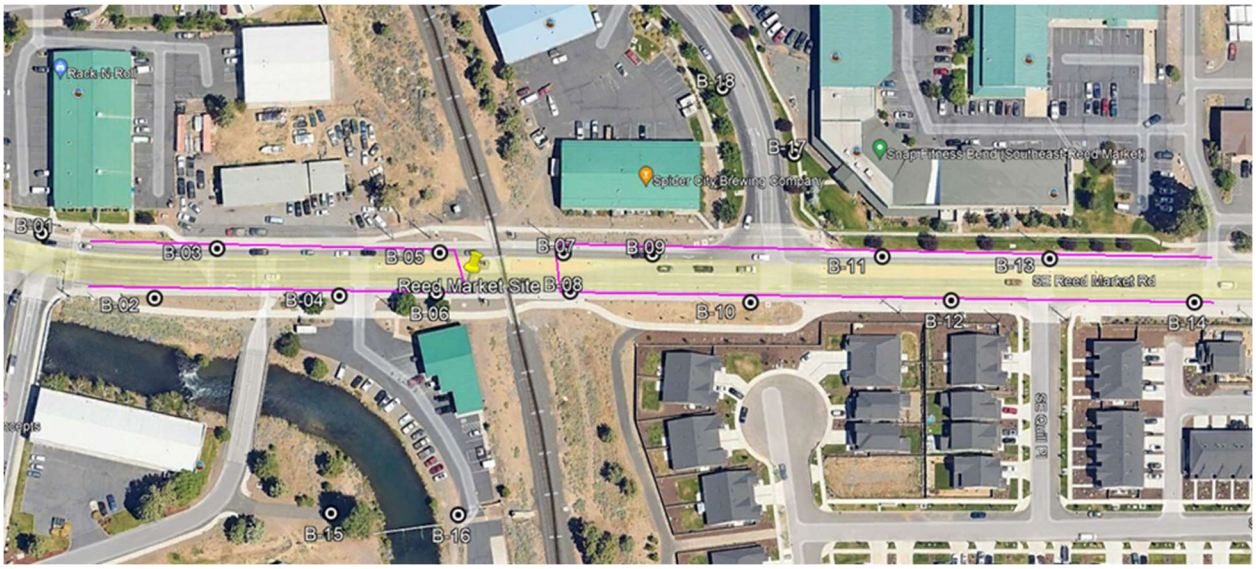
[1] including up to 40 feet of rock coring.

[2] including up to 40 feet of rock coring.

[3] including up to 50 feet of rock coring.

[4] including up to 30 feet of rock coring.

Figure 1: Preliminary location of borings.



One (1) vibrating wire piezometer with data logger will be installed in a boring between the railroad crossing and existing canal to record groundwater for up to one year. vibrating wire piezometer will be installed at depths between 30 and 40 feet. Groundwater measurements will be used to evaluate potential for perched groundwater and implications for the railroad undercrossing alternative.

Infiltration tests will be performed in accordance with 2010 Central Oregon Stormwater Manual, Appendix C - Test Pit Method.

Consultant shall perform geotechnical field explorations to determine the subsurface conditions for the express purpose of characterizing subsurface conditions within the Project limits and determining the geotechnical recommendations for the project features. Consultant shall perform subsurface explorations in accordance with all Federal, State, and Local regulations; and in conformance with GDM and the approved ETWP, as described in Task 2.2.2. Utilities in the vicinity of the proposed borings must be located through the One-Call system prior to the fieldwork. Consultant shall provide an engineer or geologist to supervise the field operations and log the explorations. Soil samples must be acquired using either a standard penetration sampler, a Shelby tube sampler, or other approved sampling technique.

Borings must be drilled with a truck-mounted drill rig using hollow stem auger or mud rotary and HQ-wireline coring techniques as described in the approved ETWP.

Assumptions:

- Street-use permits must be provided by City of Bend. Permit fees are not included in our budget.
- Temporary single lane closure and shoulder closure traffic control will be required.
- Temporary single lane closure will be completed between the hours of 8 pm to 6 am for night shifts, except Friday, Saturday, and holidays.
- The Utility Notification Center (One-Call) will be used to clear the boring locations.
- All proposed exploration locations are accessible using truck-mounted equipment.

- Drill cuttings, including soils and water, are not contaminated, and drill cuttings will be drummed and disposed of off-site.
- All borings through pavement will be patched with cold patch asphalt emulsion or quick-set Portland Cement Concrete, as appropriate.
- The planned explorations do not include environmental sampling, and the site is assumed to be "clean" regarding hazardous or contaminated materials. Therefore, no additional environmental drilling procedures are scoped in this proposal. If contaminants are encountered, costs associated with drilling procedures and investigation-derived waste disposal will be higher than assumed in this budget. Consultant shall notify DOWL immediately if subsurface contaminants are observed during the explorations.

Deliverables:

- Incorporate information from this task into the deliverables listed in Task 2.2.6 as required for delivery of documents in subsequent tasks.

2.2.4 Laboratory Testing

The Consultant shall perform laboratory tests on disturbed soil, undisturbed soil, and rock core samples obtained from the explorations to characterize the subgrade materials. The Consultant shall revise the preliminary laboratory testing plan provided in the ETWP, Task 2.2.2, based on the subsurface conditions encountered during the field explorations and submit the changes laboratory testing plan for approval prior to conducting the laboratory testing. All materials testing must be performed in accordance with standard ASTM and ODOT practices.

The actual type and number of laboratory tests to be conducted must be controlled, somewhat, by the materials and conditions encountered during the subsurface explorations. The anticipated type and estimated number of laboratory tests are shown in the table below.

LABORATORY TEST PROCEDURE	ESTIMATED # OF TESTS
Visual-Manual Identification (ASTM D2488)	8
Moisture Content (ASTM D2261)	20
Sieve Analysis (ASTM D6913)	8
Material Finer than No. 200 Sieve (ASTM D1140)	8
Atterberg Limits (ASTM D4318)	4
Direct Shear tests (ASTM D3080)	1
Uniaxial Compressive Strength for Rock (ASTM D7012)	8
Soil pH, Sulfate, Sulfide, Chloride, Resistivity, Redox	2

Deliverables:

- Incorporate information from this task into the deliverables listed in Task 2.2.6 as required for delivery of documents in subsequent tasks.

2.2.5 Geotechnical Data Analysis

Consultant shall perform analyses of the field and laboratory test data to develop recommendations for the design and construction of key geotechnical features, such as earthwork, embankments and natural slopes, rock cuts, retaining walls, sign structure foundations, and bridge foundations. Consultant shall conduct the analyses and designs in accordance with current ODOT GDM, FHWA, and AASHTO design guidelines. Geotechnical engineering studies for the existing bridge approaching bents must be performed based on the field explorations, available subsurface information obtained from Agency, and the as-constructed drawings. The geotechnical and geologic analysis must include:

- Evaluation of subsurface conditions;
- Evaluation of site-specific seismic hazards, including design ground motions, and seismic slope stability of proposed new slopes and retaining walls;
- Design and construction recommendations for the bridge structures;
- Evaluation of global stability of new slopes and new retaining walls;
- Design and construction recommendations for the retaining walls;
- Construction Considerations.

Deliverables:

- Incorporate information from this task into the deliverables listed in Task 2.2.6 as required for delivery of documents in subsequent tasks.

2.2.6 Geotechnical Engineering Report

Consultant shall prepare Geotechnical Report summarizing the site and subsurface conditions; seismic hazards and mitigations; and design and construction recommendations. The Geotechnical Report must summarize the field observations, subsurface conditions, laboratory test data, results from the geotechnical analyses, geotechnical recommendations, and construction issues for the Project.

Deliverables:

- Draft Geotechnical Engineering Report within nine weeks of completion of the geotechnical field explorations in the City ROW.
- Final Geotechnical Engineering Report within one (1) week of closure of all review comments from the City and their supporting Engineers.

2.3 Utility Coordination and Relocation

Consultant shall perform utility coordination and liaison activities with utility owners/operators for the Project. Consultant shall comply with the current version of the utility coordination policy requirements as described in the Bend Municipal Code.

Coordinate and host a franchise utility kickoff meeting. The meeting will be offered as a hybrid meeting with in-person attendees Obtain franchise utility agreements from the City. Review agreements for relocation requirements and cost responsibility.

Assumptions:

- Franchise utility kickoff meeting will be offered as a hybrid meeting; in-person at DOWL's office and virtually via Microsoft Teams.
- For estimating purposes, it is assumed that up to three (3) staff will attend the kickoff meeting which will have an estimated duration of up to two (2) hours.

Deliverables/Schedule:

- Franchise utility kickoff meeting will be held within 20 business days of the Project Information Notice delivery.
- Meeting agenda will be sent at least two (2) business days prior to the meeting.
- Meeting minutes will be sent within two (2) business days of the meeting.

This work includes reviewing utilities that may be in conflict with the Project work.

Task will include preliminary horizontal and vertical conflict analysis. Potholing needs will be identified for future design phases.

City of Bend owned utilities will be included in the preliminary design efforts in tasks 2.4 and 2.5

The following utilities are anticipated to have facilities within the project limits:

- Bend Broadband
- LS Networks
- Cascade Natural Gas
- Century Link/Lumen
- Fatbeam
- City of Bend – Sanitary Sewer
- City of Bend – Water
- Pacific Power and Light
- Adjacent Developers

Deliverables:

- Maintain a franchise utility communication log to document all communications utilizing either the anticipated SharePoint site or through a shared access filing system agreed upon by the team.
- Conflict analysis spreadsheet (1 electronic copy)
- Pothole list provided (1 electronic copy)

2.4 Alternatives Analysis

DOWL will prepare an alternatives analysis to evaluate a grade separated crossing of the BNSF railroad. In selecting a preferred alternative the team will also:

- Evaluate how to minimize impacts at American Lane
- Conduct a traffic study and preliminary geometric design to determine if 9th Street can remain open
- Evaluate access alternatives to Reed Market Storage
- Evaluate pedestrian undercrossings and accessibility of other crossings
- Determine roadway cross-sections to support a low-stress multimodal network through the project area
- Evaluate relocation of city utilities

Through this task, the design team will use a risk register to track potential pitfalls to be addressed in later phases of design.

2.4.1 Roadway Alternatives

Develop roadway cross sections for the Reed Market overcrossing and approaches. The initial cross section will be based upon the existing cross section. Develop up to three additional alternatives to optimize roadway width and account for multimodal facilities, meeting the City Low Stress Network requirements. Determination of roadway cross section will be influenced by public open house.

Develop 9th Street connectivity alternatives, coordinated closely with the structural team and traffic analysis team.

Develop alternatives for multimodal connectivity to American Lane, 9th Street, and Quill Lane. Review and determine block length requirements and improvements triggered by any intersection closures.

Develop and refine roadway profile alternatives for Reed Market Road, American Lane, 9th Street, and Quill Lane for the three alternative bridge options. Evaluate potential profiles and routing of multimodal connections.

Develop one roadway profile alternative for Reed Market Road going underneath the BNSF tracks for a single cross section based upon the existing cross section with an allowance for a bridge pier at the roadway centerline.

Use the City standard ACP Section and the Reed section PCC, where applicable.

Analyze each of the 4 profile alternatives for potential benefits and impacts associated with the construction of the proposed alternatives assuming the existing cross section. After the preferred profile is selected, determine benefits/impacts of changing the cross section at select locations.

Deliverables:

- Prepare up to four project roll maps in .pdf format showing the profile alternatives.
- Prepare roadway x-sections and vertical profile sheets for each of the alternatives.
- Prepare technical content that summarizes the results of the analysis of each alternative to be included in the alternatives analysis report

2.4.2 City Utility Relocation Alternatives

Both city owned Sewer and Water are presently located in the Reed Market right-of-way. Coordinate and meet with the City utilities departments to review existing facilities and identify preferred alternative routing options to minimize structure conflicts and assist with future maintenance. The objective is to minimize utility depths while maintaining proper access roads over and around as needed. Develop a two alternatives for each city utility relocation based on the preferred crossing alternative.

Deliverables:

- Prepare preliminary pipeline plan and profile sheets for 2 alternatives
- Prepare technical content that summarizes the results of the analysis of each alternative to be included in the alternatives analysis report

2.4.3 Storm Drainage Alternatives

Prepare storm drainage alternatives for the new overcrossing. Designs are anticipated to include collecting and piping stormwater from the fill areas, into native area, while considering the railway and COID canal. Surface treatment and infiltration will be considered as space is available. Develop a minimum of two storm drainage design alternatives based on the preferred crossing alternative.

Deliverables:

- Prepare preliminary storm plan and profile sheets for up to 2 alternatives
- Prepare technical content that summarizes the results of the analysis of each alternative to be included in the alternatives analysis report

2.4.4 Transportation Analysis

Perform a 2045 transportation analysis to evaluate roadway connection alternatives within the study area, specifically focused on the effects of the possible roadway closures along Reed Market Road. Specific analysis parameters will be informed by and closely coordinated with outcomes of Task 2.4.1.

Perform a near-term analysis that evaluates the temporary closure of Reed Market Road to construct the overpass. This evaluation will be focused on the need to implement temporary or permanent improvements to support this closure, including the need to implement the planned improvements to the Reed Market Road/15th Street intersection.

To accomplish this task, the project team will:

- Collect AM (7-9 AM) and PM (4-6 PM) peak period traffic counts at up to 5 study intersections, which are assumed to be:
    - Reed Market Rd/Paiute Way
    - Reed Market Road/American Lane
    - Reed Market Road/9th Street
    - Reed Market Road/Quill Place
    - Reed Market Road/15th Street

- Request the most recent 5-year crash data from ODOT at the study intersections and any serious or fatal crashes along Reed Market Road in the study area. Consultant shall summarize data and identify sites on the Safety Priority Index System ("SPIS"), intersections that exceed critical crash rates, and crash patterns.

- Consultant shall perform an existing operational analysis for up to 5 study intersections. The operational analysis should include:
    - LOS
    - v/c ratio
    - 95th percentile queue

Reed Market Road Connection Closure Evaluation

- Consultant shall use the 2045 Bend-Redmond Travel Demand Model to develop future volumes in the study area. Future analysis will consider 3 future year scenarios. Scenarios are assumed to be:
    - 2045 conditions assuming current roadway connection with Reed Market Road remain in place (2045 baseline conditions)
    - 2045 conditions assuming 9th Street and Quill Place no longer connect to Reed Market Road
    - 2045 conditions assuming 9th Street connects to Reed Market Road, but Quill Place does not

- Based on Bend-Redmond Travel Demand Model outputs, identify changes in 2045 roadway segment demand that would result due to roadway connection closures (compared against 2045 baseline conditions)

- Consultant shall perform 20-year forecast operational analysis for up to 5 study intersections for the future scenarios evaluated. The operational analysis should include:

- LOS
- v/c ratio
- 95th percentile queue

- For each scenario, recommend intersection configuration for each study intersection considering available right-of-way, geometrics and physical constraints, and City of Bend operational standards. Develop one Class 5 cost estimates for each intersection configuration.

- Summarize key findings from the tasks above in a brief memorandum

Near-term Reed Market Road Closure Evaluation

- Based on 2019 Bend-Redmond Travel Demand Model outputs, evaluate the changes in travel demand that could occur due to the closure of Reed Market Road to construct the planned overcrossing.

- Use model outputs to develop near-term intersection turning movement forecasts at the Reed Market Road/15th Street intersection.

- Evaluate intersection operations assuming existing lane configurations to assess the adequacy of the intersection to accommodate closure conditions. If necessary, recommend temporary or permanent intersection changes that would better support closure conditions. Outcomes of this evaluation are intended to recommend one of the following for the Reed Market Road/15th Street intersection during the closure condition:

    - Retain existing lane configurations

    - Implement a temporary configuration (assumed to be implemented through restriping)

    - Implement the long-term intersection improvements (assumed to be 2x2 roundabout layout).

        - Note: This condition would require design and construction of planned improvements to the Reed Market Road/15th Street intersection prior to the closure of Reed Market Road to implement the planned overcrossing.

- Summarize key findings from the tasks above in a brief memorandum

Deliverables:

- Draft and Final Transportation Analysis Memorandum.

2.4.5 Bridge and Wall Alternatives Analysis

Consultant shall perform an alternatives analysis to evaluate a steel and concrete alternative for each of three span lengths (6 total alternatives). Task will include determination of a preferred bridge type and general layout. Considerations for bridge aesthetics, and cross-section will be informed through the public involvement process.

Consultant shall include one additional alternative to evaluate the bridge going below the existing railroad. For the purposes of scoping the railroad bridge is assumed to be a 2-span slab bridge, supported by vertical abutment walls, and requiring a shoefly to be constructed adjacent to the existing tracks.

In addition to the main crossing, the alternatives analysis will address retaining walls, the feasibility of a new bridge over the COID canal for business access and the potential for a grade separated pedestrian crossing between the railroad and the 9th Street intersection. For the purposes of the scope, all fill walls are assumed to MSE type walls.

Consultant shall develop a recommendation for the bridge and wall types by evaluating cost, stage construction, speed of construction, environmental impacts, right-of-way impacts and durability.

Consultant shall prepare bridge plan sheets as specified below for the TS&L Deliverable:

- Up to six (6) plan and elevation sheets for the Railroad Overcrossing
- One (1) plan and elevation sheet for the undercrossing alternative
- Retaining Wall Limits shown on Roadway Plans
- Plan and Elevation for a COID canal bridge
- Up to two (2) Pedestrian crossing plan and elevation sheets

Deliverables:

- Prepare preliminary plans for bridge and wall alternatives listed above
- Prepare technical content that summarizes the results of the analysis of each alternative to be included in the alternatives analysis report

2.4.6 Alternatives Analysis Report

Consultant shall prepare a draft and final report summarizing the alternatives considered, including the environmental work, cost estimates, and construction time schedules. Consultant shall establish evaluation criteria with the City and provide a recommendation for a preferred alternative. Final submittal will incorporate both open house and city staff comments on the draft report. Task includes both Senior and Constructability Reviews.

Deliverables:

- Draft and Final Alternatives Analysis Report

2.5 30% Design

The design team will advance the design of the preferred alternative to a 30% design milestone. Through this task, the team will refine the design based on City comments, input from our permitting team, and public outreach efforts. The 30% plans will accurately define the project footprint, impacts, and ROW needs.

2.5.1 Roadway Design

The objective of the 30% roadway design is to identify the project footprint, required design exceptions, environmental impacts, NEPA coordination and any required environmental permitting. The selected alternative from Task 2.4.1 will be advanced to a roughly 30% level.

Consultant shall prepare roadway plan and profile sheets:

- Cross Section sheets
- Roadway plan and profile sheets
- General Wall profile sheets

Deliverables

- 30% roadway plan and profile sheets to be submitted under task 2.5.6

2.5.2 City Utility Design

Prepare utility relocation and extension designs and plans sheets based upon outcomes arrived in Task 2.4.2 for City owner facilities, including water and sewer.

Assumptions:

- City water and sewer relocations related to the overcrossing improvements to minimize depths and impacts while improving future maintenance access.

Deliverables

- 30% utility plan and profile sheets to be submitted under task 2.5.6

2.5.3 Storm Drain Design

Prepare storm drain calculations, designs, concept drainage report (CDR), and plan sheets based upon outcomes arrived in Task 2.4.3.

Consultant shall prepare the following roadway plan and profile sheets:

a. General grading and basin calculation sheets

b. Storm drain details limited to City standards and/or surface treatment/disposal facilities

c. Storm drain plan and profile sheets.

Assumptions:

- Designs and calculations based upon City design and construction standards and the COSM.

- A gravity only storm system is assumed for the undercrossing alternative.

Deliverables:

- Prepare a Concept Drainage Report per City of Bend design standards.
- 30% storm drainage plans and estimate to be submitted under task 2.5.6

2.5.4 Traffic Design

30% complete plans, associated with the roadway design plans. Plans will address main line corridor, and side streets within the project footprint. Lighting design will be coordinated with Pacific Power.

- Signing and pavement marking plans – (4 plans, 3 detail sheets)
- Signal plans – Reed Market Road at American Lane - (3 plans, 2 detail sheets)
- Lighting plans - (2 plans, 1 detail sheet)

Deliverables:

- 30% traffic design plans and estimate to be submitted under task 2.5.6

2.5.5 Bridge and Wall Design

The design team will advance the bridge and wall design to a 30% design milestone. Through this task, the team will refine the preferred alternative based on City comments from the alternatives, input from our permitting team, and public outreach efforts. The 30% plans will accurately define the project footprint, impacts, and ROW needs. Team will prepare a draft and final Type, Size, and Location report for the bridge(s) and walls.

Consultant shall address the following in the Bridge and Wall TS&L narrative:

- Type, size and location recommendation for the preferred structure types meeting statutory requirements and standards.
- Outline of site-specific constraints, including but not limited to; topography, geology, hydrology, environmental constraints and requirements, permits, R/W, utilities, geotechnical and cost

Consultant shall prepare bridge plan sheets as specified below for the 30% Deliverable:

- Preferred Plan and Elevation for the Railroad Crossing Structure

- Retaining Wall Plan and Elevation Sheets (6 sheets)
- COID Bridge Preferred P&E (if selected as part of the preferred alternative)
- Pedestrian Undercrossing Preferred P&E (if selected as part of the preferred alternative)

Deliverables:

- Draft and Final TS&L Report
- 30% bridge and wall design plans and estimate to be submitted under task 2.5.6

2.5.6 Prepare and Submit 30% Design

Consultant shall assemble and submit 30% Design documents including design criteria/design exception summary, plans, estimates, and the Bridge and Wall TS&L report. Task shall include senior and constructability review.

Deliverables:

- 30% Plans, *Opinion of Probable Construction Costs (*OPCC*)*, and *Construction Time Estimates* (CTE) to be submitted in .pdf format

PLAN TITLE	30%
Cover Sheet & Index	X
Plan & Profiles (9 Sheets)	X
Typical Sections - (2 Sheets)	X
Grading and Drainage Plans - (9 Sheets)	X
Grading and Drainage Detail Sheets - (1 Sheets)	X
City Utility Plan and profile - (5 Sheets)	X
Storm drain Plan and Profile - (5 Sheets)	X
Signing and pavement marking plans (4 plans, 3 detail sheets)	X
Signal plans – Reed Market Road at American Lane (3 plans, 2 detail sheets)	X
Lighting plans - (2 plans, 1 detail sheet)	X
Preferred Plan and Elevation for the Railroad Crossing Structure	X
Retaining Wall Plan and Elevation Sheets (6 sheets)	X
COID Bridge Preferred P&E (if selected as part of the preferred alternative)	X
Pedestrian Undercrossing Preferred P&E (if selected as part of the preferred alternative)	X

2.6 Opinion of Probable Construction Costs / Construction Time Estimates

Prepare Opinion of Probable Construction Cost (OPCC) and construction time estimates (CTE) for both the alternatives analysis and 30% design deliverables.

Assumptions:

- DOWL shall base the OPCC on unit prices using Agency and Consultant's historical bid information and considering inflation for a bid letting date of 2028.

Deliverables:

- An OPCC will be included for each alternative considered in the alternative analysis report.
- OPCC for the 30% design deliverable
- Up to four construction time estimates in .pdf format as an appendix to the alternatives analysis.
- CTE for the 30% design submittal

Task 3 *Environmental and Misc. Services*

Task 3 includes environmental clearance documentation, background research, field services, and other task items, such as railroad coordination and public outreach, that will be used to help inform design decisions and refine project understanding. These tasks will run in parallel and in close coordination with the alternatives analysis and 30% design phase.

3.1 Environmental Permit Research

DOWL will complete initial research to identify necessary permits, approvals, and consultations required for this project that are not otherwise outlined in this scope of work This includes local, state, and federal permits related to the environmental and construction aspects of the project. This step includes accessing state and federal databases to confirm that any known resources are identified. This research will also include a compliance assessment to confirm that all potential environmental impacts are considered and how they may be mitigated. This effort will help inform the development of task timelines and overall project schedule. DOWL will summarize the results of this research in Permit Research Memorandum. This memo will serve as a tool and an evaluation criterion during the alternatives evaluation.

Following delivery of the permit research memo, DOWL will prepare a brief NEPA Class of Action Recommendation Memorandum. The NEPA Memorandum will provide a recommendation to the City and FRA regarding the appropriate class of action and/or level of documentation.

Assumptions:

- Only FRA can determine the appropriate NEPA class of action
- No applications or permits will be prepared or obtained as part of this task
- Initial information gathered as part of Task 3.2 field efforts and studies will be used to inform this memo, as available.

Deliverables:

- Draft Permit Research Memo
- Final Permit Research Memo
- Draft NEPA Class of Action Recommendation Memo
- Final NEPA Class of Action Recommendation Memo

3.2 Environmental Field Investigations and Environmental Documentation

The DOWL team will conduct the following environmental field investigations include:

- Phase 1 Environmental Site Assessment (ESA) (Contingency)
- Biological surveys
- Noise assessments
- Level 1 Hazardous Material Assessment (HMA)
- Level 2 Hazardous Material Assessment (Contingency).

3.2.1 Level 1 HMA

- The Level 1 HMA will identify items of environmental concern along the project corridor. The HMA will include completion of the following tasks:
    - Review City-provided and readily available geotechnical reports, environmental reports, or other relevant documents pertaining to environmental conditions within the project area, if available.
    - Review federal, tribal, state, and local environmental records for listings of known or suspected environmental conditions within the project area and nearby properties.
    - Review regulatory agency files for properties in the project area identified in the environmental databases.
    - Review historical aerial photographs, as available and appropriate, to identify development history of properties within the study area relative to the possible use, generation, storage, release, or disposal of hazardous materials.

- Conduct a search of the Oregon Water Resource Department database to evaluate whether any registered water wells are present within or adjacent to the project area.
- Conduct a visual reconnaissance of the project area and adjacent properties for visible evidence of possible adverse environmental conditions.
- Provide a draft and final report that summarizes findings regarding the possible presence of adverse environmental conditions that could impact the project area.
  - The Draft report will be delivered within 10 weeks of NTP.
  - The final report will be delivered within 2 weeks of receipt of comments.
- Provide recommendations for avoidance of, or the potential need for, a Level II Environmental Assessment.

Assumptions:

- There will be no building or structure (e.g., pavement, curb, roadway, lighting fixtures, etc.) demolition, and no structure surveys for hazardous building materials.

Deliverables

- Draft Level 1 HMA
- Final Level 1 HMA

3.2.2 Level 2 HMA (Contingency)

The Level 2 HMA will be completed only as recommended by the Level 1 HMA or the Phase I ESA, respectively. Activities associated with Level 2 HMA may include one or more of the following:

- Shoulder material investigation, and
- Hazmat oversight during geotechnical drilling.

Shoulder material investigation assumptions:

- The field work for the investigation(s) will be completed as property access agreements, subcontractor availability, and weather conditions allow.
- 1 day in the field (12-hours includes mobilization to/from the site)
- 2 people in the field
- Samples can be collected easily using hand tools
- 4 sample locations, collected from 3 depth intervals: 0-0.5 feet, 0.5-1.0 feet, and 1.0-1.5 feet
- RSM method for sampling and analyses will be used
- Apex Labs for soil analyses of four soil samples for:

- Diesel- and heavy oil-range petroleum hydrocarbons by Northwest Total Petroleum Hydrocarbons (NWTPH)-Diesel Extended (Dx) Method;
- PAHs by U.S. Environmental Protection Agency (EPA) Method 8270 SIM; and
- Total metals (antimony, arsenic, barium, cadmium, chromium, copper, mercury, lead, selenium and zinc) by EPA Methods 6020 and 7471A.

- No groundwater samples.
- Laboratory results will be compared to DEQ Risk-Based Concentrations for Construction- and Excavation Workers
- Prepare 1 draft report, one round of client comments, 1 final report; all electronic format.
- No Investigative Derived Waste (IDW) will be generated.
- The draft report(s) will be prepared within 3 weeks of receipt of analytical laboratory or other data (e.g., geophysical survey data).

Deliverables:

- Draft Level 2 HMA
- Final Level 2 HMA

3.2.3 Section 106 Consultation Support

As a recipient of an FRA grant, the City will be required to support the FRA's compliance with Section 106 of the National Historic Preservation Act of 1966 (NHPA). As an FRA grantee, the City will act as the primary driver of the Section 106 process, but the ultimate responsibility of NHPA compliance remains with the FRA, and it will be critical for the City to understand FRA's expectations and be responsive to their requests.

DOWL will support the City by completing the following primary tasks:

- Coordinating initial meeting with FRA Historic Properties specialist(s), OR SHPO, the City, and DOWL cultural resource specialists to:
  - review FRA's Section 106 Compliance process and expectations of the City
  - discuss the applicability of the Advisory Council on Historic Preservation program comment to the BNSF railroad right-of-way
  - discuss the project's preliminary area of potential effect (APE)
  - review the other consulting parties (e.g., Indian Tribes, local historic societies) that should be included in the Section 106 process
  - discuss FRA delegation of Section 106 consultation responsibilities to the City/DOWL
- Conduct a desktop review of archaeological and historic resources (including built environment resources) and past cultural resource studies within the preliminary APE

and compile the data into a report which includes recommendations regarding the needs for field studies of known/potential historic properties in the preliminary APE
    - Review will include review of OR SHPO's OARRA and Historic Buildings Database, City of Bend parcel/lot data, the National Register of Historic Places (NRHP), local historic landmarks, General Land Office Maps, Sanborn Fire Insurance Maps, historic aerial photographs and maps, and other relevant sources of historic information.
    - City of Bend/DOWL will also contact Indian Tribes to determine if any important tribal resources may be present within or near the preliminary APE.
    - Desktop report will be submitted to FRA, OR SHPO, and consulting parties for 30-day review and comment.
- Based on the recommendations contained within the Desktop Review report, DOWL will conduct field studies to inventory the preliminary APE for historic properties.
    - Inventory may include archaeological and historic (e.g., built environment) investigations, and may require DOWL to obtain permits from State, local, or private entities authorizing DOWL staff to conduct archaeological and/or historic resource studies.
    - DOWL will assemble the results of the field investigations into a single comprehensive report which will include the methods and results of the investigation, and recommendations regarding the NRHP-eligibility of resources inventoried and evaluated as part of the investigation. The report will also provide a recommendation regarding the potential of the City's proposed Project to result in adverse effects to any recommended or determined eligible historic properties.
- Upon completion of the fieldwork report, the City and DOWL, in consultation with FRA, will assemble the final Section 106 consultation submittal for FRA review, address any FRA edits/comments, and resubmit the Section 106 consultation package for approval and signature.
    - Once FRA approves and signs the final Section 106 consultation materials, the City and DOWL will distribute the materials to the OR SHPO and consulting parties.

Assumptions:

- See Figure 1 for the preliminary area of potential effect.
- Fieldwork will include archaeological and historic (e.g., built environment) inventories, which may require DOWL to obtain permits from State, local, and/or private entities.
- The project will not result in adverse effects to historic properties, and no agreement documents (e.g., Memorandum of Agreement, Programmatic Agreement) will be required.

Deliverables:

- Initial Meeting Materials (e.g., agenda, project-specific information hand-outs, list of proposed consulting parties, preliminary APE)
- Initial Meeting Minutes
- Draft Desktop Study and Recommendations
- Final Desktop Study and Recommendations
- Draft Field Investigation Report and Recommendations
- Final Field Investigation Report and Recommendations
- Draft Section 106 Submittal Package
- Final Section 106 Submittal Package

3.2.4 Wetland and Waters Determination

DOWL will complete a field review to document the presence/absence of wetlands and waters within the API. As part of this effort, DOWL will use available data (including but not limited to: soil surveys, aerial photos, LWI maps, topographic maps, NWI maps) as well as data gathered in the field. Field work will be consistent with the criteria and methods described in the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory Technical Report Y-87-1), appropriate Regional Supplements, and DSL technical requirements.

Consultant shall utilize the field data collected to prepare a Wetland and Waters Determination Memorandum to document the presence or absence of wetlands within the API. The Memorandum will also make preliminary recommendations on state and federal jurisdiction for waters identified within the API.

Assumptions:

- There will be no wetlands found within the API.
- Only one non-wetland water is expected to be delineated (Central Oregon Canal)
- A formal wetland delineation report will not be required

Deliverables:

- Draft Wetland and Waters Determination Memo
- Final Wetland and Waters Determination Memo

3.2.5 Endangered Species Act (ESA) No Effect and Botanical Clearance Memorandum

DOWL will complete desktop and field reviews of the API to determine the likely presence or absence of ESA listed species. The field review will also document the presence of any noxious weed populations. Following field review, DOWL will make preliminary recommendations regarding potential effects to ESA listed species. DOWL will also summarize data on noxious species found during the field review and make recommendations regarding steps that can or should be taken during construction to control the spread of these species.

Assumptions:

- The project will have No Effect on ESA listed species. If a No Effect recommendation cannot be made or does not receive concurrence from FRA, individual consultation may be required.

Deliverables:

- Draft No Effect and Botanical Clearance Memorandum
- Final No Effect and Botanical Clearance Memorandum

3.2.6 Noise and Vibration Impact Analysis

Objective:
A noise and vibration impact analysis shall be completed implementing a hybrid approach comprised of methods used on Federal Highway Administration (FHWA) projects associated with 23 CFR 772 and FRA projects, which has adopted the methodologies provided in the Federal Transit Administration (FTA) Noise and Vibration Impact Assessment Manual. Roadway components of the project will follow the methodologies prescribed in Oregon Department of Transportation (ODOT) Noise Manual and the interim updates to the manual. The following scope provides additional details on these efforts which include:

- Measurement Program
- Roadway Traffic Noise Analysis
- Railroad Noise and Vibration Analysis
- Construction Noise and Vibration Analysis
- Technical Report

Measurement Program
Staff will travel to the Project site to conduct the noise field tests. The measurement program will consist of a combination of up to two short-term (at least 15-minute long) traffic noise validation measurements and one long-term (at least 24-hour long) noise measurement. The measurements shall be completed from sensitive land uses near the grade crossing comprising multi-family residences and outdoor seating areas at restaurants.

Existing traffic noise levels will be measured implementing the procedures outlined in FHWA's guidance document "Measurement of Highway-Related Noise" and the measurements will be used to validate the existing conditions traffic noise model. Per ODOT guidance the existing conditions traffic noise model is deemed a valid predictor of traffic noise if it agrees with the validation measurements within three decibels. Note that validation measurements must be completed under weather conditions where the roadways being monitored are dry and wind speeds are relatively low, generally less than 10 miles per hour. During each measurement, traffic volumes and attributes will be collected, including the numbers of passenger vehicles, medium trucks, heavy trucks, buses, and motorcycles as well as their corresponding speeds. Photographs of each measurement location in each ordinal direction will be collected and observations of noise sources in the area documented. We assume that no additional permits or authorizations will be needed to conduct the fieldwork. Measurements will be conducted from outdoor areas of frequent human use such as yards or decks at residential property. We assume access to these locations will be obtained by requesting permission from property owners while in the field or via right-of-entry agreements obtained before the field effort by the City of Bend.

The long-term noise measurement will be completed to document existing conditions, such as horn use by trains, experienced by noise sensitive receptors. One measurement will be completed by deploying a long-term unattended noise monitor at the residential development closest to the existing crossing. Equipment will be deployed at the exterior of a residence located adjacent to the railroad. The measurement shall be conducted in accordance with the methods identified in the FTA's guidance manual adopted by the Federal Railroad Administration (FRA). The result of this measurement shall be used to identify exiting conditions throughout the area and to establish FTA/FRA impact criteria for the railroad noise analysis. The FTA/FRA criteria are variable based on existing noise exposure.

Roadway Traffic Noise Analysis

HMMH will perform a traffic noise analysis to identify potential noise impacts on sensitive areas of frequent human use that could potentially be impacted by the Project, an area we estimate at being within approximately 500 feet of the Project's roadway improvements. We will conduct our analysis in accordance with the Federal Highway Administration (FHWA) 23 CFR 772 – Procedures for Abatement of Highway Traffic Noise and Construction Noise as well as the ODOT Noise Manual and interim updates.

HMMH will develop an existing conditions traffic noise model, a no build alternative model, and a build alternative noise model. Three-dimensional design data provided by the Project's engineers will be used as input to the traffic noise model including design items such as roadways, bridge structures, retaining walls, and safety barriers for the build alternative analyzed. The existing conditions noise model will be validated using the measurement data collected as part of the Measurement Program. Existing peak roadway traffic noise hour, typically the peak vehicular hour or the peak truck hour, will be entered into the model and exceedances tabulated. The existing conditions model will be updated to include the no build future traffic volumes and exceedances tabulated. A build alternative model will also be created based on the project design and future build alternative traffic conditions to assess how many, if any, impacts would occur from roadway traffic in the future. The results will be summarized in a technical report.

Railroad Noise and Vibration Analysis

We will conduct a railroad noise and vibration analysis consistent with the methodologies described in the FTA Transit Noise and Vibration Impact Assessment manual (FTA 2016). Since there would be little to no change to the railroad alignment, we anticipate that the analysis will focus on the removal of the need to sound horns at the crossing in the future with the project in place. Our assessment will use the 24-hour measurement data to quantify how sound levels will change with the project by excluding the periods where the horn is active in the measurement. We expect that there will be a net reduction in railroad noise from implementation of the build alternative. The improvement/reductions in railroad noise from the project will be documented in the noise technical report.

Vibration will be qualitatively addressed from operation of freight train traffic on the railroad since there would be no change anticipated in how trains would operate, other than removing the need to sound horns.

Construction Noise and Vibration Analysis

Construction equipment noise and vibration levels will be calculated using the methods identified in the FHWA Roadway Construction Noise Model (RCNM 2.0) and FTA/FRA guidance manual. These methods provide maximum noise levels (Lmax) and peak particle velocity vibration levels in inches per second squared (PPV/in2) for construction equipment that will be used on the Project. Any impact conditions will be quantified. Propagation of construction equipment vibration levels will be calculated using equations provided in the FTA/FRA guidance manual and impact conditions tallied. If construction equipment vibration impacts are identified HMMH will provide mitigation strategies. The analysis effort will be included in the technical report for this task.

Technical Report

A noise and vibration technical report shall be prepared of sufficient detail to use as an appendix in the Project's NEPA document. A draft version of this document will be submitted for internal team review prior to delivery to the City and FRA. Upon resolution of all comments final versions of the document will be submitted to the City and FRA.

Assumptions:

- Traffic data for the existing, no build alternative, and build alternative.
- As-built drawings (or existing conditions survey) in AutoCAD, MicroStation, or scanned images file format.
- Project design data in AutoCAD, MicroStation, or GIS format.

Deliverables:

- Draft and Final Noise and Vibration Technical Report

3.2.7 Air Quality Impact Analysis

Consultant shall conduct a qualitative air quality study in accordance with the latest EPA and FHWA guidance, FRA and the Oregon Department of Transportation regulations, guidelines and methodologies. The analysis will include considerations of carbon monoxide (CO) analysis as needed based on the expected traffic data for the Opening and Design Year conditions. For Mobile Source Air Toxics (MSATs), it is assumed that the average annual daily traffic for the Design year is less than 140,000, and only a qualitative analysis shall be necessary. Our effort will also confirm that the project is included in the latest transportation plans for the City of Bend, Deschutes County, or other applicable plans. Our analysis will be documented in air quality technical memorandum and be of sufficient detail to satisfy EPA, FHWA and FRA reporting requirements.

Assumptions:

- Traffic data for the existing, no build alternative, and build alternative.
- Project design data in AutoCAD, MicroStation, or GIS format.

Deliverables:

- Draft and Final Air Quality Technical Memorandum

3.3 NEPA Documentation

Based on our current understanding, and as is typical on transportation projects in urban environments, a Categorical Exclusion is the most likely NEPA classification. Certain impacts, such as a significant number of relocations or public controversy, could require the project to complete an Environmental Assessment. Effort includes one of the two possible NEPA paths. Details for an EA and CE are included below. The consultant shall prepare documentation for an EA or CE, as confirmed by FRA.

Categorical Exclusion Documentation

At completion of the alternatives analysis, DOWL will assemble the FRA CE Worksheet in accordance with the FRA CE Companion Guide, which includes:

- A detailed description of the project action
- An environmental review of impacts including social and economic conditions, and natural and biological resources as described above.
- Records of public and agency consultation

- Documentation confirming compliance with environmental laws, such as the Endangered Species Act, Clean Water Act (CWA), and National Historic Preservation Act
- Mitigation measures
- Supporting studies and reports

Once reviewed by FRA, approval will be documented in with the signature of the approving official on the CE worksheet. In our experience on similar projects, this process takes three to six months following the submission of the CE documentation.

Environmental Assessment (EA)/ Finding of No Significant Impact (FONSI)

If an EA is required, DOWL would work with the City and FRA to identify reasonable mitigation measures that would allow the project to achieve a FONSI. DOWL's permit team will work closely with the design team during the alternatives analysis to help avoid sensitive resources that may require extended analysis. All required environmental documentation for the proposed project will be prepared in accordance with NEPA and Council on Environmental Quality (CEQ) implementing procedures 40 CFR Parts 1500 – 1508. The additional scope needed to complete an EA would include:

- A Purpose and Need Statement which details the underlying problems or deficiencies being addressed, and to describes the overall objectives of the proposed action.
- Alternatives Analysis which provides a succinct comparative review of the proposed action, as well as alternatives to the proposed action that could reduce environmental impacts, while still meeting the overall project purpose and need.
- Affected Environment and Environmental Consequences Chapter which provides a description of the existing environmental setting for each impact category, followed by a description of the potential direct, indirect, and cumulative impacts that would result from the proposed action.
- Climate Change Analysis consistent with CEQ's 2023 Guidance on Consideration of Greenhouse Gas Emissions and Climate Change.
- Notice of Availability publication and public meeting for the Draft EA. Comment adjudication and comment response log from a 30 day public comment period.
- Final EA and FONSI revised to address substantive comments resulting from the public comment period.

CE Assumptions:

- No unusual circumstances (23 CFR 771.116(b)) apply and a CE will be approved as the class of NEPA action.
- Documentation will include the entire scope of work, including any temporary or construction-related impacts.

- Analysis of cumulative effects will not be required for CE documentation.
- Environmental review will be completed in accordance with 23 CFR Part 771 Environmental Impact and Related Procedures and 23 CFR Part 774 Section 4(f).
- Section 508 of the Rehabilitation Act of 1973 will not apply to CE document or supplemental reports.
- No more than two rounds of review will be required from FRA on the CE checklist.
- The NEPA review will be consistent with the regulations in place at the time of notice to proceed. If regulatory changes occur during the delivery of the NEPA document and impact the scope of work, additional work will be added by amendment.

EA Assumptions:

- Project is non-controversial and response to public comments would only require responses to substantive comments requiring no more than 24 hours of consultant time.
- One public comment period and one public meeting. No public hearings will be requested.
- Two rounds of edits each on the draft and final EAs for the City and for FRA.
- Rule of reason applies. Level of research and analysis aligns with potential for significant impact.
- Compliance with Section 508 of the Rehabilitation Act of 1973 is required and all native documents (word versions or original PDFs) will be available for 508 compliance.

Deliverables:

CE Deliverables (if applicable)

- Draft and final CE checklist
- Compiled resource reports and consultations resulting from tasks 2 and 3 into a CE supplemental appendix.

EA Deliverables (if applicable)

- Draft and final Notice of Intent to Begin Environmental and Engineering Studies (public scoping).
- Draft and final Agency Scoping Letter and preliminary environmental research supporting documentation.

- Draft EA and Appendices
- Notice of Availability of the Draft EA
- Public Meeting Summary
- Comment/Response log
- Final EA and Appendices
- Notice of Availability of the Final EA and FONSI

3.4 Railroad Coordination

Consultant shall lead railroad coordination with BNSF to determine the feasibility of design alternatives. The City will contract with BNSF and all fees will be paid directly from the City of Bend. Consultant shall lead coordination effort including preparation of the permit application.

3.4.1 Coordination Meetings

Consultant shall schedule, prepare for, attend, and document up to four (4) Virtual Coordination Meetings (2 hours each) for coordination with Agency staff. Conduct initial site visit to review and orient project and set up and attend the diagnostic meeting at the site if one is required. Attend up to two (2) Virtual Coordination Meetings (1 hour each) with BNSF/ODOT Rail.

- ODOT Rail
- BNSF

Deliverables:

- Draft agenda that addresses any Project issues and seek feedback for decision-making resolution at least five (5) business days prior to each meeting. Consultant shall distribute Final agenda at meeting.
- Meeting minutes distributed within two (2) business days of each Coordination Meeting.

3.4.2 Coordinate Railroad PE Agreement/ Rights of Entry

The Consultant shall coordinate the railroad preliminary engineering agreement and rights of entry (ROE) between the City of Bend and BNSF Railroad.

3.4.3 Coordinate ODOT Rail Application

The Consultant shall coordinate the ODOT Rail Application with ODOT Rail Staff and BNSF. This includes utilizing various project plans for the exhibits to the application and also includes the preparation of the top of rail profile of the existing tracks to determine clearance requirements.

Deliverables and Schedule:

- Draft ODOT Rail Application and Exhibits
- Final ODOT Rail Application and Exhibits

3.4.4 Coordinate Railroad Submittals

The Consultant shall coordinate the approval process for BNSF. This involves the submittal of plans and calculations to BNSF at concept level, and 30% plans.

Deliverables:

- BNSF Submittal and Review comments for the Concept Plan and 30% Design Plans.

3.5 Public Outreach

JLA will lead a public involvement (PI) and stakeholder outreach effort to solicit stakeholder input and maintain community support for the project. After NTP, JLA will prepare a draft Public Involvement Plan (PIP) for City review and approval that will outline the outreach activities, including what the City will lead. Public outreach will include informational materials including postcards, 3D visualizations and opportunities for public input, including, in-person and online public open houses, and community meetings.

Early outreach efforts in milestone 1 (after the draft Alternatives Analysis Deliverable) will be used to refine project goals and seek input that will inform the final cross-section geometry of Reed Market Road. Milestone 2 (after the 30% Deliverable) engagement will focus on providing the public with updates on project progress and specific property-owner engagement.

Public involvement will be carried out in parallel with other alternative development activities. This task includes the work necessary to conduct a variety of public involvement activities.

3.5.1 Public Involvement Plan

- Prepare a draft Community Engagement Plan (CEP).
- Coordinate an Engagement Strategy session with the City staff and partners to layout and discuss the Draft PIP program and timeline.
- Prepare a final PIP following receipt of comments from Project team and partners.

3.5.2 Postcards

It is anticipated that three postcards will be issued to the community, corresponding with the outreach events. The last one would notify the public of the final design and direct them to the website for more information, including construction details.

- Consultant to draft and finalize postcard designs and the City will mail them out.
- A city-point person will be listed as the project contact on all public information materials and postcards will be designed using current GO Bond postcard template.

3.5.3 Open Houses

- Prepare for four (4) public open houses. The first set of open houses (1 in-person and 1 online) will be used to present project goals and solicit design considerations. The second set of open houses (1 in-person and 1 online) will be conducted after city council has selected a preferred alternative and will be used for design refinement and to share project progress. It is assumed two (2) PI consultant will attend the in-person open houses.
- The in-person public open houses and online open houses, will be presenting the same information at each design milestone.

- Consultant will lead the content and production of open house events. Event will allow participants to learn about the project and what's being considered as well as provide feedback. Prior to the development of the online open house, Consultant to develop a draft content plan for approval by the City PM.
- The online open house will be hosted on the City's platform. It is assumed the online open house will be live for up to two (2) weeks. All online open houses must meet ADA requirements and be adaptable for mobile devices.
- At the completion of each online open house, Consultant to provide raw feedback and a summary of feedback.
- Consultant to design up to 8 display boards for the in-person event, an event sign in sheet and comment form.
- At the conclusion of each milestone, Consultant to develop an event summary for the online and in-person events.

Community Presentations
The DOWL team will prepare for and attend up to 6 meetings to present the current design of the project to adjacent property owners and other key interested parties. Consultant to develop a presentation and take notes for each meeting.

Visualization Materials
The DOWL team will prepare 3D visualization graphics of the proposed improvements for use during the public outreach. Visualizations will include ten still-frame 3D rendered images of the improvements.

Public Involvement Summary
The purpose of this task is to document this phase of work. The DOWL team will prepare draft and final reports documenting the alternatives development, evaluation and selection process, including documentation of the open houses and any other public outreach.

Assumptions:

- DOWL staff to mail postcards
- City to host and update website
- Consultant to purchase light refreshments for 2 in-person events.
- City to host online open house on their engagement platform. Translation services to be coordinated by the City, if required.

Deliverables:

- Draft Public Involvement Plan (3 to 8 pages, Word and PDF)
- Final Public Involvement Plan (3 to 8 pages, Word and PDF)
- Postcards for City to print/distribute (3)
- Open House Plans and Meeting Summaries (2)
- Open House Displays, sign in sheets and comment forms (8 total)

- Open House Graphics (Strip Map, typical section board, 3D visualizations, timeline)
- Online Open House events (2)
- Community Meetings (up to 6 meetings, 1-hour in duration)
- Public Involvement Summary (1)

Task 4 *Misc. Value Add*

4.1 ROW Consultation

Preliminary Research

- *Conduct onsite visit to identify potential impacted properties and businesses. Research potential impacted businesses and all to assess relocation needs and costs.*
    - *Assumptions:*
        - *Assuming up to 1 site visit.*
        - *Assuming title reports are not included. If needed, revised BOC and SOW will be necessary.*
        - *Assuming up to 20 impacted parcels for 4 alternatives.*
        - *Assuming non residential relocation needed for up to 2 businesses, 2 landlords and 52 tenants.*

Cost Estimating

- *Consultant shall perform R/W cost estimating to support project development and alternative analysis. Consultant shall provide preliminary R/W cost estimates for up to 20 parcels and 2 businesses that may be impacted by the Project. Consultant shall develop preliminary estimates in accordance with ODOT's R/W manual. Relocation costs include re-establishment expense, moving expenses and site search expenses only.*
    - *Assumptions:*
        - *If additional estimates are needed, revised BOC and SOW will be necessary.*
        - *Assuming DOWL will prepare and submit cost estimate spreadsheets*
        - *Assuming up to 20 impacted parcels. If additional parcels are included, revised BOC and SOW will be necessary.*
        - *Assuming up to 4 alternative analyses.*
        - *Assuming relocation costs needed for up to 2 businesses.*

APPENDIX 10:
WETLAND MEMO

WETLAND AND WATERS DETERMINATION MEMORANDUM

TO:	Eric King, City Manager, City of Bend
FROM:	Charles Hastings, Environmental Specialist, DOWL
DATE:	April 17, 2025
PROJECT:	Reed Market Corridor Study

PROJECT DESCRIPTION

The City of Bend (City) is proposing a grade-separated crossing at the Burlington Northern Santa Fe (BNSF) rail line on Reed Market Road. Currently, six to eight trains cross Reed Market Road each day, creating vehicular traffic delays on one of the city's major arterial roadways. Eliminating the at-grade crossing would increase east-west traffic capacity in the city and improve vehicular, pedestrian, and bicycle safety by providing multimodal facilities that avoid directly crossing the railroad tracks along the high traffic corridor.

The project will be partially funded by a Federal Railroad Administration (FRA) Railroad Crossing Elimination grant and the remainder of the funding will be from Bend's General Obligation Bond 2020 ballot measure. The project is in the early design phase and includes both overpass and underpass alternatives. New stormwater management features are being designed for both alternatives to avoid impacts to the railway and the Central Oregon Irrigation District (COID) canal within the project area.

The City contracted DOWL, LLC (DOWL) to conduct a wetland and waters determination for the study area (**Attachment 1, Figure 1**). DOWL environmental staff conducted a desktop review of available information and performed a field assessment on November 4, 2024 to identify wetland and water resources in the study area, assess their values, and provide preliminary jurisdictional determinations for wetlands or waters present in the study area.

The study area is approximately 488,915 square feet (11.2 acres). The legal description is Sections 09 and 04 of Township 18 South, Range 12 East.

METHODS

Desktop Review

DOWL environmental staff performed a desktop review of available data sources and mapping resources to determine if any wetlands or waters were mapped within the study area. The information sources included:

- U.S. Geologic Survey (USGS) topographic maps
- Natural Resources Conservation Service (NRCS) soil maps
- USGS National Hydrography Dataset (NHD)

- Google Earth aerial imagery
- US Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) maps
- Statewide Wetland Inventory (SWI) maps

Based upon review of SWI, no local wetland inventory maps were available for the study area. Wetland data provided by SWI is identical to the data in NWI (**Attachment 1, Figure 2**).

Field Assessment

DOWL conducted the wetland determination pursuant to the methodologies outlined in the 1987 USACE *Wetlands Delineation Manual*[1] and the May 2010 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region*[2].

DOWL identified the ordinary high water mark (OHWM) for non-wetland waters according to the USACE Regulatory Guidance Letter 05-05[3], Oregon Administrative Rules (OAR), and the USACE *National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams – Interim Version*[4]. DOWL mapped the OHWM for non-wetland waters using a Trimble® R2 Global Navigation Satellite System with sub-meter accuracy.

RESULTS

Desktop Review

NHD, NWI, Google Earth imagery, and USGS topographic maps all depict the Central Oregon Irrigation District (COID) canal as a water resource within the study area. The COID canal is classified by NWI as a riverine habitat (**Attachment 1, Figure 2**). This canal transports water from the Deschutes River to the City of Bend and to the unincorporated communities of Alfalfa and Powell Butte. Based on NWI, NHD, and USGS topographic maps, a ditch enters the canal from the west near the southern end of the study area. This ditch is classified by NWI as an excavated riverine habitat. See **Attachment 1, Figure 3** for a recent aerial photograph of the study area.

[1] Environmental Laboratory. (1987). "Corps of Engineers Wetlands Delineation Manual," Technical Report Y-87-1 U.S. Army Engineers Waterways Experiment Station, Vicksburg, MS.
[2] U.S. Army Corps of Engineers. 2010. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0),* ed. J.S. Wakeley, R.W. Lichvar, and C.V. Noble. ERDC/EL TR-10-3. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
[3] USACE. 2005. Regulatory Guidance Letter 05-05: Ordinary High Water Mark Identification. Dated December 7, 2005. 4 pages
[4] USACE. 2022. USACE National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams – Interim Version. ERDC/CRREL TR-22-26

The NRCS soil map (**Attachment 1, Figure 4**) showed two soil units within the study area:

- **Wanoga sandy loam, 0 to 15 percent slopes (155C) –** This soil is a well-drained soil associated with hillslopes. This soil is non-hydric, with no minor components. This soil unit is mapped over approximately 90% of the study area.
- **Wanoga-Fremkle-Rock outcrop complex, 0 to 15 percent slopes (157C) –** This soil is a well-drained soil associated with hillslopes. This soil is non-hydric, with no minor components. This unit is mapped over approximately 10% of the study area.

Field Assessment: Wetlands

DOWL conducted the field assessment on November 4, 2024. Conditions were partly cloudy with a high temperature of 50 degrees Fahrenheit. To inform the assessment, DOWL accessed precipitation data from the Bend Climate Station (Federal Information Processing Standards [FIPS] code 41017), located approximately 1.4 miles north of the study area. The Bend Climate Station recorded no precipitation for the day and a total of 0.26 inch of rain in the two weeks preceding the field assessment, which is approximately 0.14 inch below normal[5]. Precipitation preceding the field assessment was below normal in August and October but above normal in September. Three-month precipitation data is summarized in Table 1; precipitation data for the day of the field assessment, precipitation for preceding two weeks, and current year-to-date/water year-to-date data is summarized in Table 2.

Table 1: Precipitation Data for Months Preceding November 4, 2024 Field Visit

Month	Average (inches)	30% Chance Will Have		Observed Precipitation (inches)	Comparison to Normal Range
		Less Than	More Than		
		(inches)			
August	0.38	0	0.39	0 (trace)	Below Normal (0%)
September	0.28	0.09	0.28	0.3	Above Normal (9%)
October	0.64	0.29	0.78	0.32	Below Normal (50%)

Table 2: Precipitation Data Summary

Date of Field Visit	Day of Field Visit (inches)	Two Weeks Prior (inches)	Water Year to Date (inches)	Percent of Normal for Water Year Date	Current Year to Date (inches)	Percent of Normal for Current Year to Date
11/04/2024	0	0.26	0.35	47%	4.57	47%

[5] NRCS Field Office Technical Guide, Climatological Data and Daily Climate Normals, Web accessed 11/08/2024 at https://efotg.sc.egov.usda.gov/#/details

The field assessment occurred during the wet season based on the Antecedent Precipitation Tool (APT)[6]. See **Attachment 3** for the APT results table.

DOWL biologists did not identify any wetlands in the study area. While hydrophytic vegetation grows at or below the OHWM of the COID canal, all other on-site areas are characterized by upland plants including yellow rabbitbrush (*Chrysothamnus viscidiflorus,* UPL), sagebrush (*Artemisia* spp.), and ponderosa pine (*Pinus ponderosa,* FACU). Soil from test pits taken in the study area contained sandy loam with a matrix color of 10YR3/2, corroborating NRCS soil composition data.

Field Assessment: Waters

The COID canal is the only water resource in the study area. The COID canal has an approximate OHW elevation of 3,726 feet (NGVD29 datum) (**Attachment 1, Figure 5**). DOWL determined OHW for the COID canal based on the location of sediment on rocks and debris, changes in soil/substrate characteristics, and changes in vegetation. The canal had no active flow at time of visit; however, DOWL observed standing water in a topographically low area within the canal toward the southern end of the study area. Channel substrate was volcanic bedrock, rubble, and sand. Cattails (*Typha* spp.), rushes (*Juncus* spp.), and other hydrophytic vegetation grow at or below the OHW line in areas along the canal. See **Attachment 2** for representative photographs of the study area.

CONCLUSIONS

Based on the best professional judgment of DOWL environmental staff, the COID canal is likely not jurisdictional to the Oregon Department of State Lands (DSL) under OAR §141-085-0515(7)(d) as the canal is operated for the exclusive purpose of conveying water for irrigation and stock purposes.

The COID canal is likely jurisdictional to the USACE under 33 Code of Federal Regulation (CFR) 328.3(a)(3). Under this section of the CFR, tributaries of interstate waters that are “relatively permanent, standing or continuously flowing” are considered jurisdictional. After flowing through the community of Powell Butte, the COID canal ultimately reaches the Crooked River, a tributary of the Deschutes River. The Deschutes River is a tributary of the Columbia River, which is both an interstate water and a traditional navigable water and therefore a Water of the United States (WOTUS). The COID canal maintains a relatively permanent connection with the Columbia River via the Crooked and Deschutes Rivers and is therefore also a WOTUS.

This memorandum documents the results of the desktop review and field assessment, best professional judgment, and conclusions of DOWL environmental staff. It is correct and complete

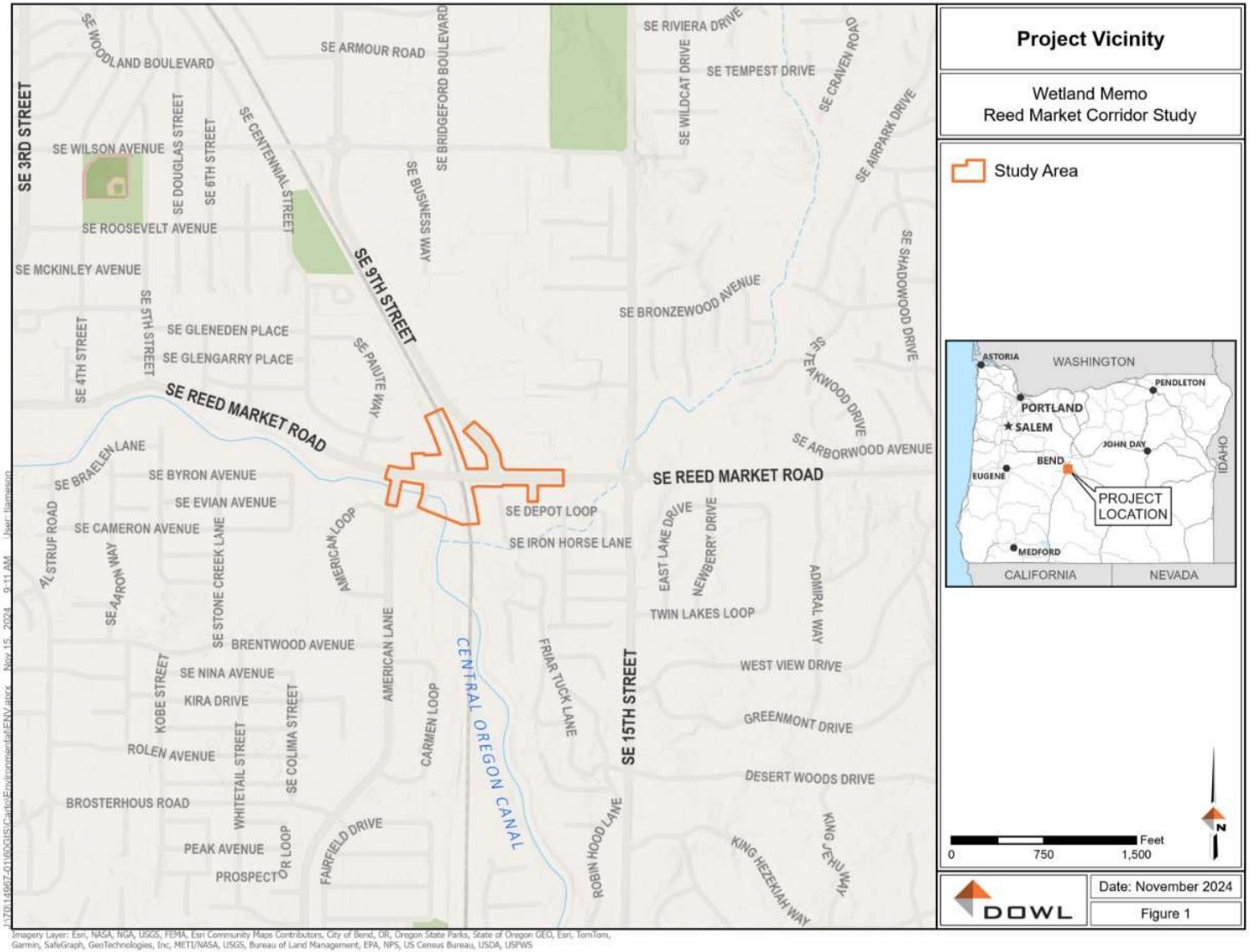
[6] USACE. 2023. Antecedent Precipitation Tool Version 2.0. US Army Engineer Research and Development Center. Accessed November 8, 2024.

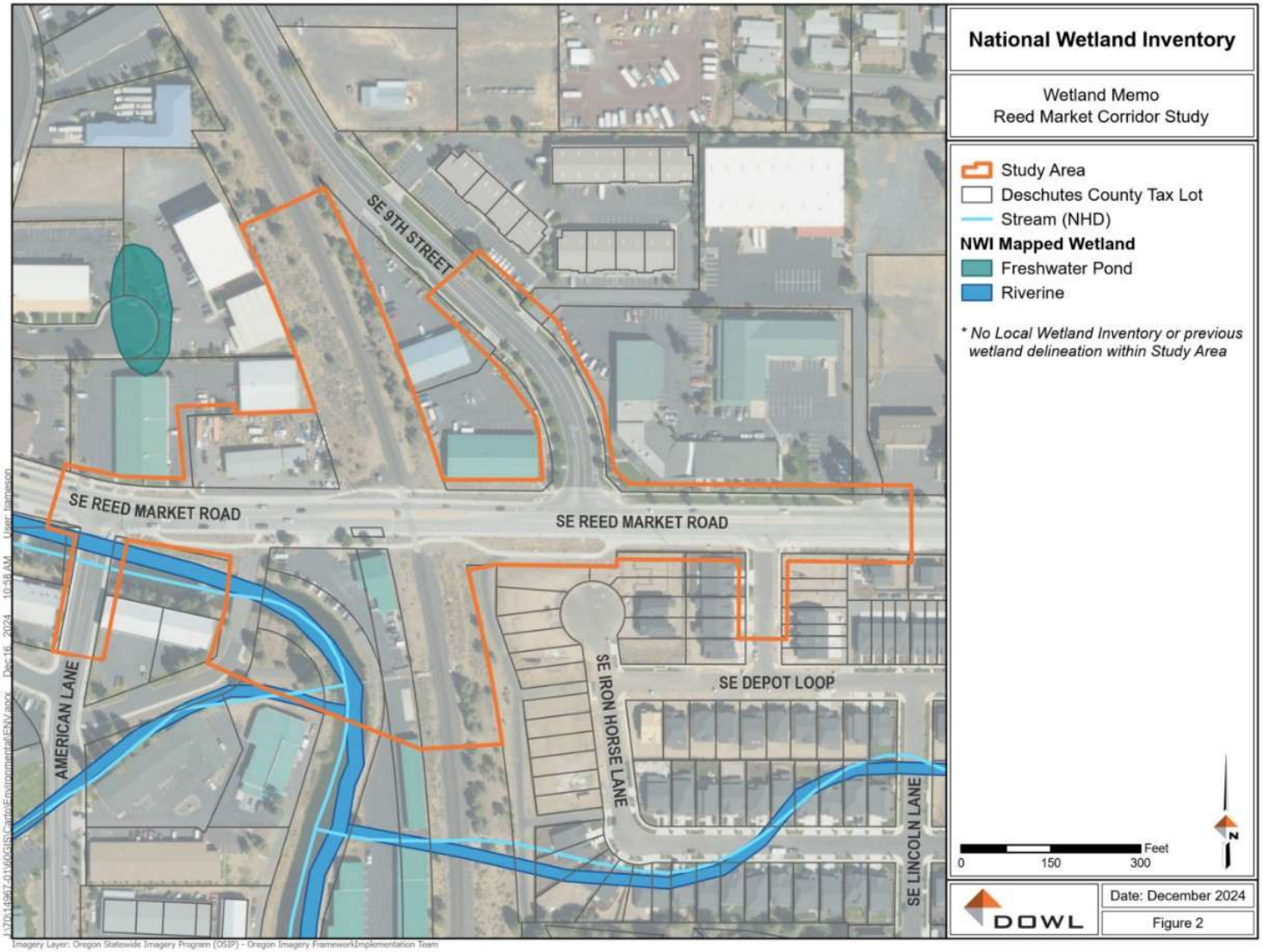
to the best of DOWL's knowledge. This memorandum should be considered a Preliminary Jurisdictional Determination of waters and used at your own risk unless it has been reviewed and approved in writing by DSL and USACE.

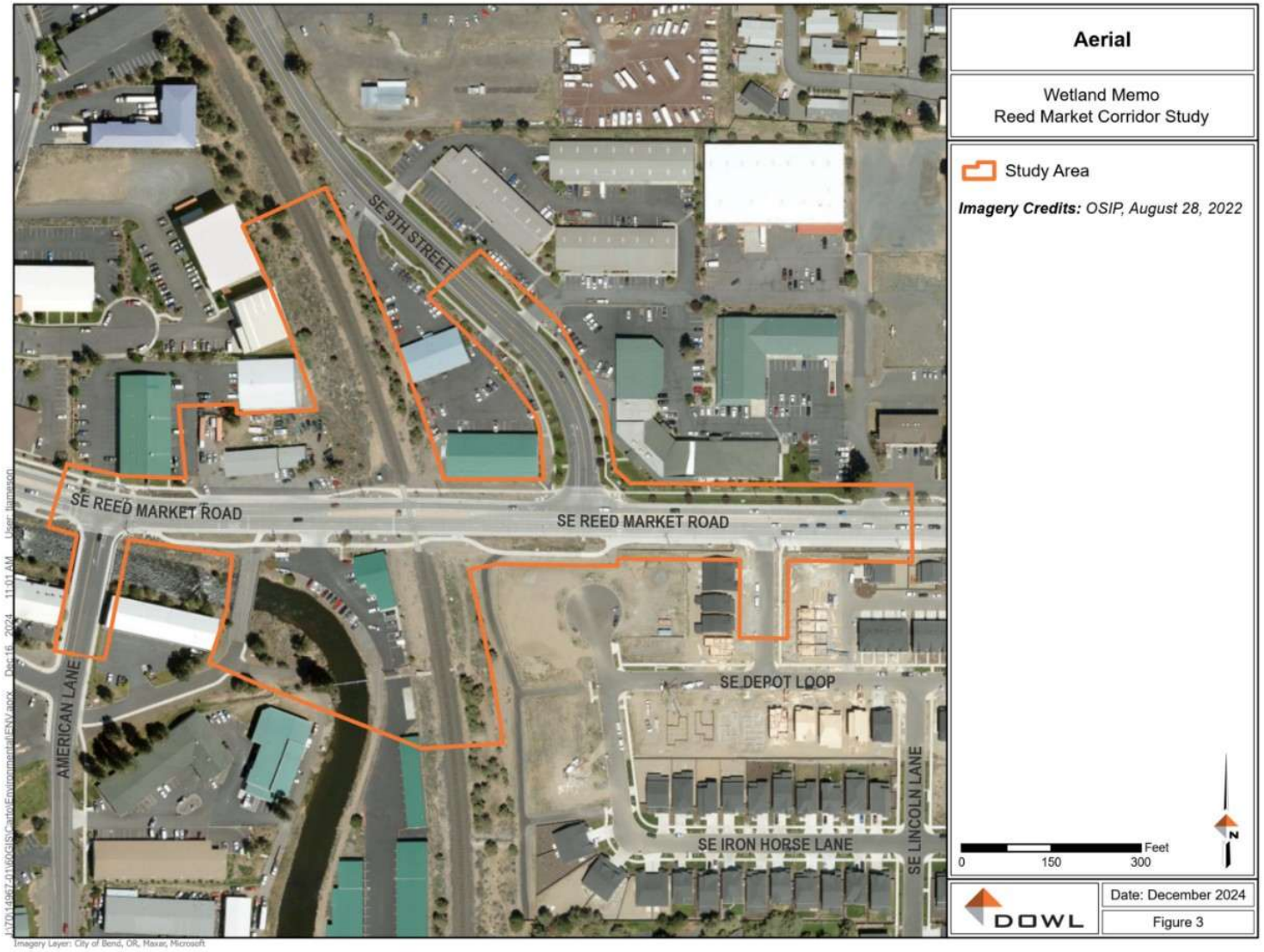
If there are any questions regarding the information described within this technical memorandum, please contact James Stupfel at 971.634.2014 or via email at jstupfel@DOWL.com.

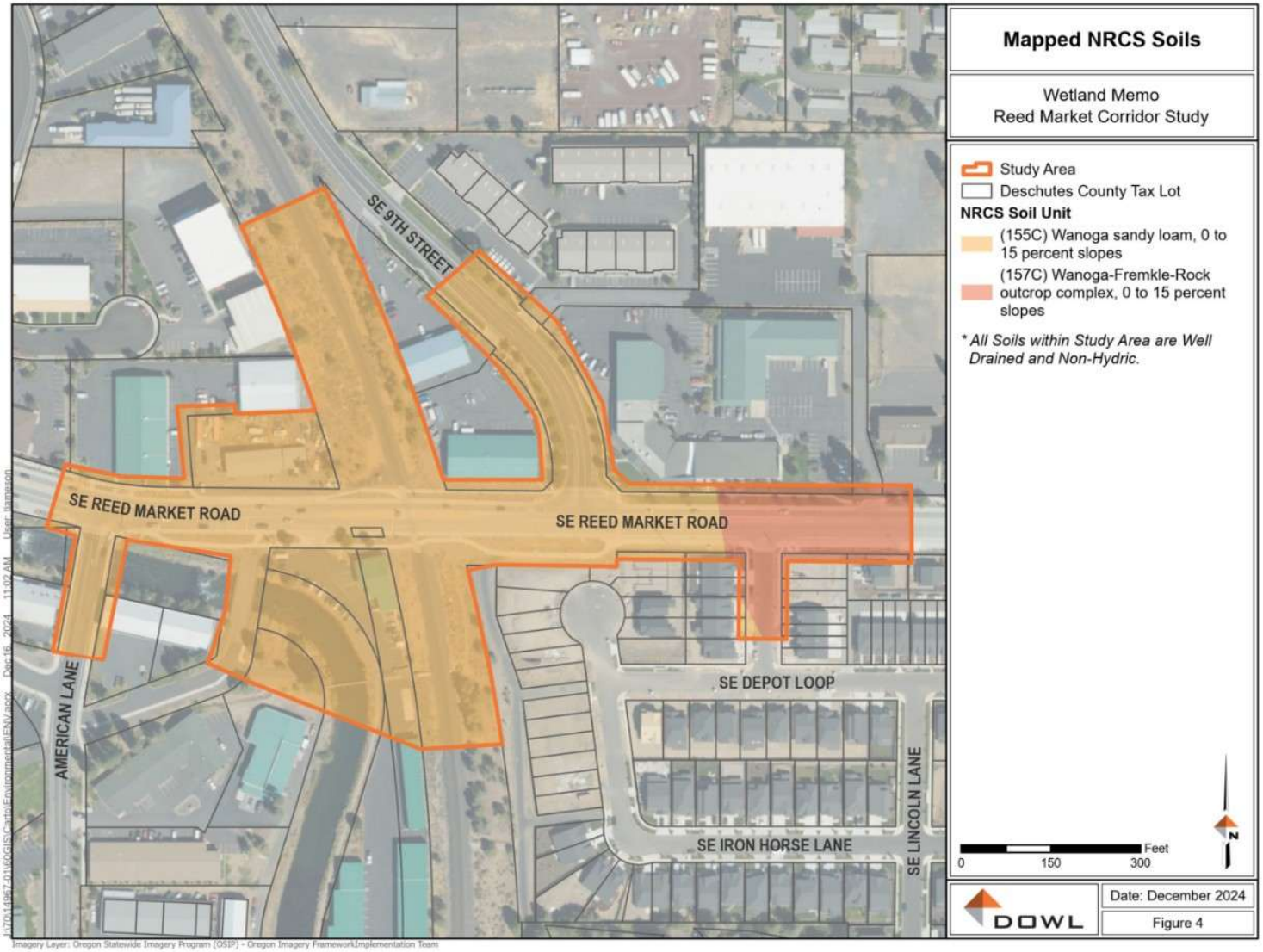
ATTACHMENT 1

Figures


Project Vicinity
Wetland Memo
Reed Market Corridor Study
Study Area
SE 3RD STREET
SE WOODLAND BOULEVARD
SE ARMOUR ROAD
SE BRIDGEFORD BOULEVARD
SE RIVIERA DRIVE
SE TEMPEST DRIVE
SE CRAVEN ROAD
SE WILDCAT DRIVE
SE AIRPARK DRIVE
SE WILSON AVENUE
SE DOUGLAS STREET
SE 6TH STREET
SE CENTENNIAL STREET
SE BUSINESS WAY
SE ROOSEVELT AVENUE
SE MCKINLEY AVENUE
SE 9TH STREET
SE BRONZEWOOD AVENUE
SE SHADOWOOD DRIVE
SE 5TH STREET
SE 4TH STREET
SE GLENEDEN PLACE
SE GLENGARRY PLACE
SE PAIUTE WAY
SE REED MARKET ROAD
SE TEAKWOOD DRIVE
SE ARBORWOOD AVENUE
SE BRAELEN LANE
SE BYRON AVENUE
SE EVIAN AVENUE
SE CAMERON AVENUE
SE DEPOT LOOP
SE IRON HORSE LANE
AL STRUP ROAD
SE 44TH WAY
SE STONE CREEK LANE
AMERICAN LOOP
EAST LAKE DRIVE
NEWBERRY DRIVE
ADMIRAL WAY
TWIN LAKES LOOP
BRENTWOOD AVENUE
SE NINA AVENUE
KIRA DRIVE
KOBE STREET
AMERICAN LANE
CENTRAL OREGON CANAL
FRIAR TUCK LANE
SE 15TH STREET
WEST VIEW DRIVE
GREENMONT DRIVE
DESERT WOODS DRIVE
ROLEN AVENUE
WHITETAIL STREET
SE COLIMA STREET
CARMEN LOOP
BROSTERHOUS ROAD
PEAK AVENUE
PROSPECTOR LOOP
FAIRFIELD DRIVE
ROBIN HOOD LANE
KING HEZEKIAH WAY
KING JEHU WAY
ASTORIA
WASHINGTON
PENDLETON
PORTLAND
SALEM
JOHN DAY
BEND
EUGENE
PROJECT LOCATION
MEDFORD
IDAHO
CALIFORNIA
NEVADA
Feet
0
750
1,500
N
DOWL
Date: November 2024
Figure 1
Imagery Layer: Esri, NASA, NGA, USGS, FEMA, Esri Community Maps Contributors, City of Bend, OR, Oregon State Parks, State of Oregon GEO, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS


National Wetland Inventory
Wetland Memo
Reed Market Corridor Study
Study Area
Deschutes County Tax Lot
Stream (NHD)
NWI Mapped Wetland
Freshwater Pond
Riverine
* No Local Wetland Inventory or previous wetland delineation within Study Area
SE 9TH STREET
SE REED MARKET ROAD
SE REED MARKET ROAD
AMERICAN LANE
SE IRON HORSE LANE
SE DEPOT LOOP
SE LINCOLN LANE
Feet
0
150
300
N
DOWL
Date: December 2024
Figure 2
Imagery Layer: Oregon Statewide Imagery Program (OSIP) - Oregon Imagery Framework Implementation Team


SE 9TH STREET
SE REED MARKET ROAD
SE REED MARKET ROAD
AMERICAN LANE
SE DEPOT LOOP
SE IRON HORSE LANE
SE LINCOLN LANE
Imagery Layer: City of Bend, OR, Maxar, Microsoft
Aerial
Wetland Memo
Reed Market Corridor Study
Study Area
Imagery Credits: OSIP, August 28, 2022
Feet
0
150
300
N
DOWL
Date: December 2024
Figure 3


Mapped NRCS Soils
Wetland Memo
Reed Market Corridor Study
Study Area
Deschutes County Tax Lot
NRCS Soil Unit
(155C) Wanoga sandy loam, 0 to 15 percent slopes
(157C) Wanoga-Fremkle-Rock outcrop complex, 0 to 15 percent slopes
* All Soils within Study Area are Well Drained and Non-Hydric.
SE 9TH STREET
SE REED MARKET ROAD
SE REED MARKET ROAD
AMERICAN LANE
SE DEPOT LOOP
SE IRON HORSE LANE
SE LINCOLN LANE
Feet
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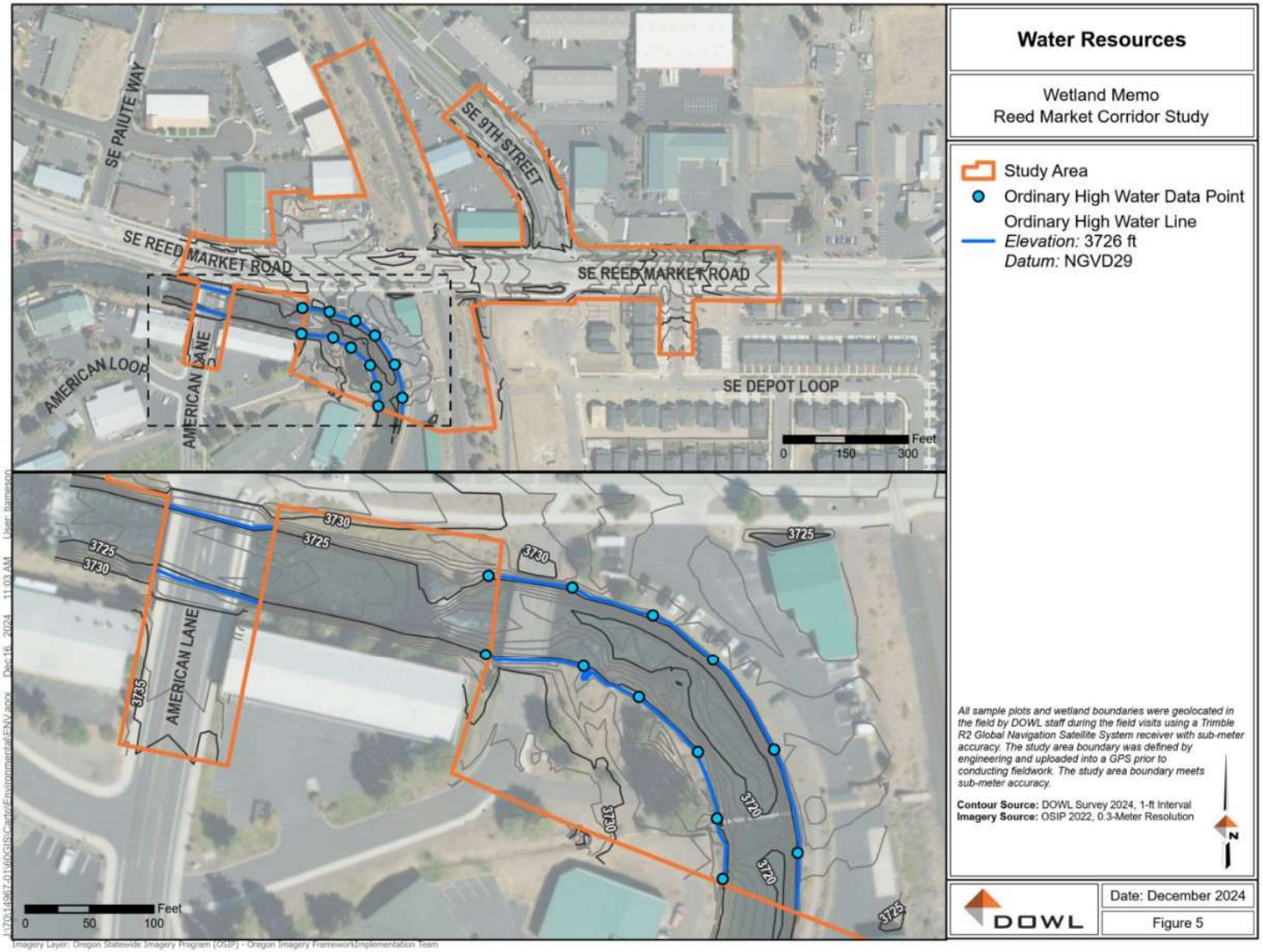
DOWL
Date: December 2024
Figure 4
Imagery Layer: Oregon Statewide Imagery Program (OSIP) - Oregon Imagery Framework/Implementation Team


SE PAIUTE WAY
SE 9TH STREET
SE REED MARKET ROAD
SE REED MARKET ROAD
AMERICAN LOOP
AMERICAN LANE
SE DEPOT LOOP
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3730
3725
3730
3725
AMERICAN LANE
3735
3720
3720
3720
3725
Feet
0
50
100
Imagery Layer: Oregon Statewide Imagery Program (OSIP) - Oregon Imagery Framework/Implementation Team
Water Resources
Wetland Memo
Reed Market Corridor Study
Study Area
Ordinary High Water Data Point
Ordinary High Water Line
Elevation: 3726 ft
Datum: NGVD29
All sample plots and wetland boundaries were geolocated in the field by DOWL staff during the field visits using a Trimble R2 Global Navigation Satellite System receiver with sub-meter accuracy. The study area boundary was defined by engineering and uploaded into a GPS prior to conducting fieldwork. The study area boundary meets sub-meter accuracy.
Contour Source: DOWL Survey 2024, 1-ft Interval
Imagery Source: OSIP 2022, 0.3-Meter Resolution
N
DOWL
Date: December 2024
Figure 5

ATTACHMENT 2

Photographic Record



Photo 1: Hydrophytic vegetation growing at and below OHW along the COID canal contrasted with adjacent upland vegetation



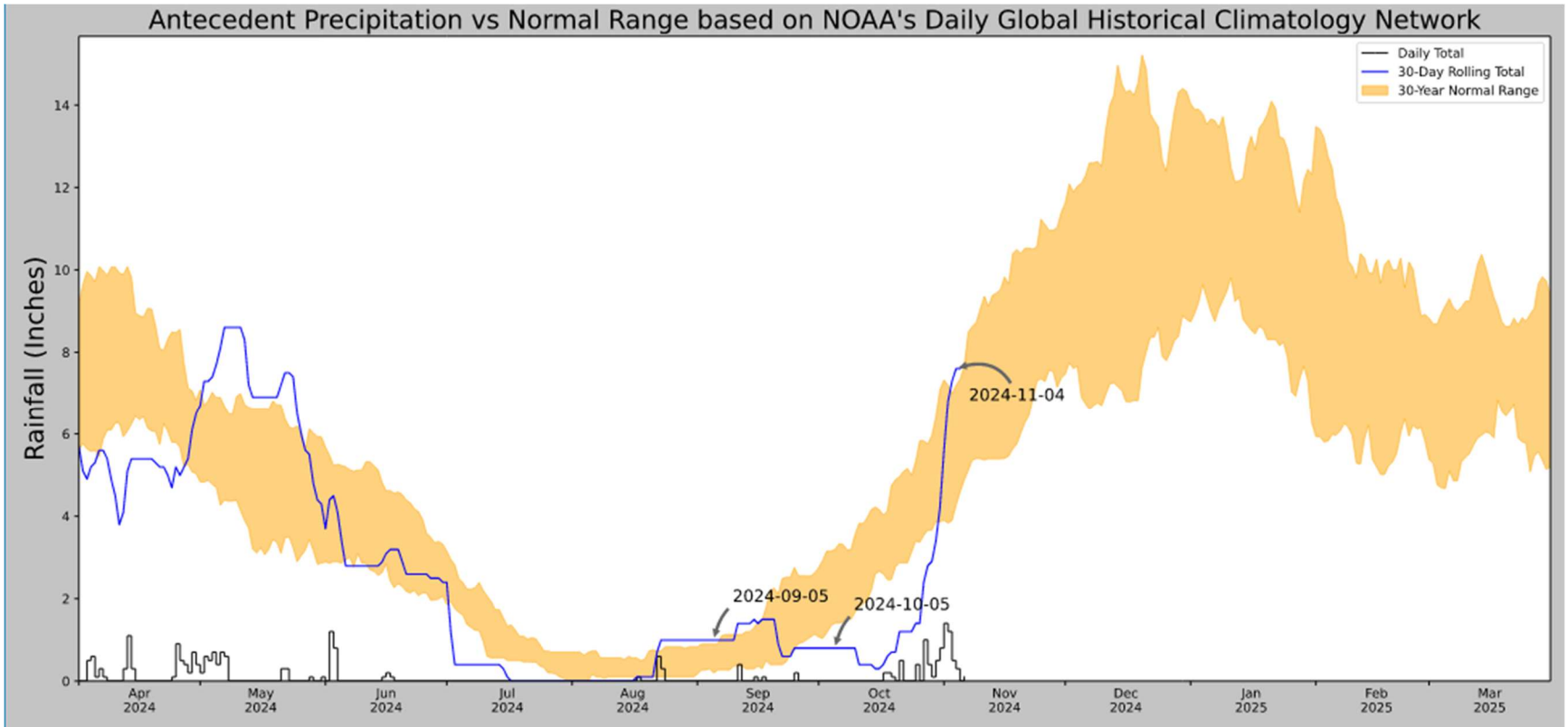
Photo 2: Ponded water within the OHW of the canal near the southern end of the study area



Photo 3: Prominent OHW marks on canal substrate and metal debris

ATTACHMENT 3

Antecedent Precipitation Tool



Coordinates	44.036993, -122.289098
Observation Date	2024-11-04
Elevation (ft)	3990.851
Drought Index (PDSI)	Mild drought (2024-10)
WebWIMP H_2O Balance	Wet Season

30 Days Ending	30th %ile (in)	70th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-11-04	4.27441	7.196457	7.602362	Wet	3	3	9
2024-10-05	1.406299	3.185827	0.799213	Dry	1	2	2
2024-09-05	0.19685	0.897638	0.996063	Wet	3	1	3
Result							Normal Conditions - 14

US Army Corps of Engineers

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
Roaring River	43.9, -122.03	4950.131	15.988	959.28	22.531	11344	90
Irish Taylor	43.8, -121.95	5540.026	7.977	589.895	8.295	6	0
Mckenzie	44.21, -121.87	4770.013	22.845	180.118	14.395	3	0

APPENDIX 11:
HAZARDOUS MATERIALS CORRIDOR ASSESSMENT

Level 1 Hazardous Materials Assessment

City of Bend Project: Reed Market Corridor Study
SE Reed Market Rd Between SE American Ln and 1350 SE Reed Market Rd
Bend, Deschutes County, Oregon

Task 3.2.1 Level 1 Hazardous Materials Assessment

City of Bend Project #: 1GRMC
DOWL Project #: 2670.14967.01

November 13, 2024

Prepared by:

COLES+BETTS environmental consulting

5741 NE Flanders Street
Portland, OR 97213

Job No. 493

In collaboration with Reynolds Engineering, LLC

Prepared for:

710 NW Wall St, Bend, Oregon 97703

EXECUTIVE SUMMARY

Coles + Betts Environmental Consulting, LLC, in collaboration with Reynolds Engineering, LLC, has completed a Level 1 Hazardous Materials Assessment (HMA) for the City of Bend Reed Market Corridor Study project (the Project, or Project Corridor), City of Bend Project #1GRMC. The location of the Study is along SE Reed Market Rd between SE American Ln and 1350 SE Reed Market Rd (east of SE Quill Pl), Bend, Deschutes County, Oregon (Appendix A, Figure 1). The HMA was conducted on behalf of the City of Bend and their design consulting team led by DOWL, LLC.

The Project limits are along SE Reed Market Rd from SE American Ln to east of SE Quill Pl (1350 SE Reed Market Rd) with a BNSF railroad crossing at SE Reed Market Rd. The Project limits also include portions of SE American Ln, SE American Lp, SE 9th St, SE Quill Pl, the BNSF railroad alignment north and south of SE Reed Market Rd, the Central-Oregon Canal, four private properties (1110 and 20685 SE Reed Market Rd, 61560 SE American Ln, and a portion of 1151 SE Centennial St), and the right-of-ways adjacent to private properties (i.e., 1080, 1100, 1133 and 1177 SE 9th St; 1310 and 1350 SE Reed Market Rd; 61602 and 61606 SE Depot Lp; 61607 through 61596 SE Quill Pl; 20656 through 20689 SE Iron Horse Ln; 61580 and 61585 American Ln; and 1141, 1151 and 1182 SE Centennial St) (Appendix A, Figure 2). The Project intends to eliminate the at-grade BNSF railroad crossing to increase both east-west traffic capacity for the City of Bend and improve multimodal safety along the traffic corridor. Proposed project elements are a new bridge over the railroad, a new bridge over the Central-Oregon Canal, and new retaining walls. Existing stormwater facilities will also be improved and/or new stormwater facilities will be added.

The purpose of the HMA was to identify potential environmental conditions that may impact Project construction. Per the project contract, this HMA was prepared per the most current version of the ODOT Level 1 Hazardous Materials Corridor Study report template. The HMA does not include inspection or sampling of materials that would be disturbed during construction. Access was limited and/or inaccessible on private property and/or there was limited visibility from the right-of-way at the following locations: the BNSF railroad property north of SE Reed Market Rd and low-lying areas between the rail alignment and the southern portion of 20685 SE Reed Market Rd; the Central-Oregon Canal at the Arnold canal and above-water utility corridor confluence locations; and the interiors of the private properties at 1110 and 20685 SE Reed Market Rd, 61560 SE American Lp, and the following properties adjacent to the Corridor: 1133 and 1177 SE 9th St.

Based on the findings of this HMA, we reached the following conclusions:

- Historical agricultural / barn structures that were located within the Project Corridor at SE Reed Market Rd and SE Quill Pl that may have had underground storage tanks for farm equipment fuel or heating oil storage (Appendix A, Figure 2). However, the 1982 and 1994 SE Reed Market Rd improvements (widening and sidewalks) and the recent residential redevelopment would have likely encountered a tank and/or petroleum contamination, if present, during roadway improvement and residential construction activities. Based on this information, the former agricultural land use and structures within and adjacent to the southeast Corridor are not of environmental concern.

- Sites listed in regulatory databases with known and potential contamination were identified adjacent to the Project Corridor; however, considering proposed construction activities, their distance from the Project Corridor, the limited extent of soil and groundwater contamination, the sites are cross- to down-gradient from the Project Corridor, and/or on their No Further Action status the sites are not of environmental concern to the project. No further investigation is recommended regarding these sites.

- Soils and groundwater (if present) within and adjacent to the 1110 SE Reed Market Rd property from previous and current auto repair facility operations may be impacted by petroleum, heavy metals and/or solvents. This property is located within the Project Corridor. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed, and groundwater (if present) may need to be pre-treated prior to discharge to the municipal sewer/storm system and/or hauled off-site for disposal during Project construction.

- The soils adjacent to the elevated railroad alignment may contain petroleum hydrocarbons, petroleum constituents, creosote, heavy metals and/or herbicides as the soils are sinks for railroad bed, track and or operations' pollutants. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed.

- The fill material used to fill a previous canal channel at the Arnold Canal over-water utility corridor on the east bank of the Central-Oregon Canal is unknown (Appendix A, Figure 2). Although the canal area is limited, the fill material may not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed.

- Stormwater retention features and catch basins are present, and possibly dry wells at multiple locations along the Project Corridor. Because the features are adjacent to the

roadway, and are sinks for roadway pollutants, there is the potential that the soil and/or sediment do not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed or retrofitted. In addition, stormwater system retrofits, upgrades, and/or drywell decommissioning may need to meet DEQ Underground Injection Control (UIC) Program requirements that include DEQ notifications and fees, soil and sediment testing, and reporting.

- The soils and Central-Oregon Canal sediment adjacent to and within the Project Corridor roadways may contain petroleum hydrocarbons and heavy metals as they are sinks for roadway pollutants. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed. If sediment is present in the Canal where Project construction activities are to occur, the sediment may require characterization prior to their disturbance and disposal.

- Treated timber utility poles are present within the Project Corridor and may be disturbed by Project construction. Poles with electrical transformers will require coordination with utility providers for proper removal.

- Pad-mounted transformers and utility poles with electrical transformers will require coordination with utility providers for proper removal

The recommendations for the City of Bend are listed below.

1. If soils and/or groundwater on the 1110 SE Reed Market Rd property (i.e., current and former auto repair shop) will be disturbed during Project construction and/or if the property will be acquired, a site investigation is recommended to determine whether soils and, if present, groundwater have been impacted by petroleum, solvents or heavy metals.
2. DEQ's Materials Management Program may allow the reuse of excavated roadway adjacent soils, railway adjacent soils, and stormwater system soils (and possibly sediment) on lots zoned industrial and/or in rights-of way. However, because the reuse of excavated soils on the Project may be limited in volume and can't come into contact with or adversely impact groundwater or surface water (including stormwater sheet flow), we recommend sampling shoulder, stormwater feature, and railway soils that will be disturbed by construction activities and completing a Clean Fill Determination for managing the material.
3. If the ground will be disturbed within the former, filled-in canal on the east bank of the Central-Oregon Canal during Project construction, soil and groundwater (if present) sampling is recommended to determine whether soils and groundwater have been

impacted by petroleum and heavy metals. These data can be used to complete a Clean Fill Determination for soils (see item 2 above) for managing material and dewatering disposal options (e.g., discharge to the municipal storm/sewer system, to the ground surface, or to a disposal or recycling facility).

4. Stormwater system retrofits, upgrades, and/or drywell decommissioning may need to meet DEQ Underground Injection Control (UIC) Program requirements that include DEQ notifications and fees, soil and sediment testing, and reporting.

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LEVEL 1 HAZARDOUS MATERIALS ASSESSMENT
REED MARKET CORRIDOR STUDY
SE REED MARKET RD BETWEEN SE AMERICAN LN AND 1350 SE REED MARKET RD
BEND, DESCHUTES COUNTY, OREGON
CITY OF BEND PROJECT #1GRMC

1.0 INTRODUCTION

Coles + Betts Environmental Consulting, LLC, in collaboration with Reynolds Engineering, LLC, has completed a Level 1 Hazardous Materials Assessment (HMA) for the City of Bend's Reed Market Corridor Study along Reed Market Rd between SE American Ln and 1350 SE Reed Market Rd, Bend, Deschutes County, Oregon (Appendix A, Figure 1) (the Project or Project Corridor). The HMA was conducted on behalf of the City of Bend and their design consulting team led by DOWL, LLC.

The Project limits are from SE American Ln to 1350 SE Reed Market Rd (approximately 200 feet east of SE Quill Pl) and includes the Burlington Northern Sante Fe (BNSF) railroad crossing perpendicular to SE Reed Market Rd at the approximate middle of the Project Corridor; and portions of SE American Ln, SE American Lp, SE 9th St, SE Quill Pl, the BNSF railroad alignment north and south of SE Reed Market Rd, the Central-Oregon Canal, four private properties (1110 and 20685 SE Reed Market Rd, 61560 SE American Ln, and a portion of 1151 SE Centennial St), and the right-of-ways adjacent to private properties (i.e., 1080, 1100, 1133 and 1177 SE 9th St; 1310 and 1350 SE Reed Market Rd; 61602 and 61606 SE Depot Lp; 61607 through 61596 SE Quill Pl; 20656 through 20689 SE Iron Horse Ln; 61580 and 61585 American Ln; and 1141, 1151 and 1182 SE Centennial St) (Appendix A, Figure 2). The Project intends to eliminate the at-grade BNSF railroad crossing to increase both east-west traffic capacity for the City of Bend and improve multimodal safety along the traffic corridor. Proposed project elements are a new bridge over the railroad, a new bridge over the Central-Oregon Canal, and new retaining walls. Existing stormwater facilities will also be improved and/or new stormwater facilities will be added.

The purpose of the HMA was to identify potential environmental conditions that may impact Project construction. Per the project contract, this HMA was prepared per the most current version of the ODOT Level 1 Hazardous Materials Corridor Study report template. The HMA does not include inspection or sampling of materials that would be disturbed during construction.

2.0 CORRIDOR DESCRIPTION

2.1 Physical Setting

The Project Corridor is within Section 4, Township 18 South, Range 12 East in Deschutes County, Bend, Oregon (Appendix A, Figure 1). The Corridor is along SE Reed Market Rd between SE American Ln (western terminus) and 1350 SE Reed Market Rd (approximately 200 feet east of SE Quill Pl) (the eastern terminus). The Corridor includes the BNSF railroad crossing located at the approximate midpoint of the Corridor and portions of SE American Ln, SE American Lp, SE 9th St, SE Quill Pl, the BNSF railroad alignment north and south of SE Reed Market Rd, the Central-Oregon Canal, and three private properties (1110 and 20685 SE Reed Market Rd and 61560 American Ln) (Appendix A, Figure 2). Current land use in the vicinity of the Project Corridor is commercial/light industrial with single-family and multi-unit residences located south of SE Reed Market Rd and east of the BNSF railroad alignment to the southeastern project terminus. A bicycle/pedestrian pathway is located south of SE Reed Market Rd and east of the BNSF railroad alignment.

2.1.1 Geology

Geological information was obtained from the Oregon Geologic Data Compilation, release 6 (OGDC-6), which is a statewide compilation of geologic data created by the Oregon Department of Geology and Mineral Industries (DOGAMI, 2024). The Project Corridor is in the High Lava Plains geologic province. The primary geologic unit within the Project Corridor is the Newberry Volcano formation, which is comprised of Quaternary basalt and basaltic andesite lava flows and vent deposits.

Environmental Data Resources, Inc. (EDR) indicated soils in the Project Corridor are well drained sandy loams (Wanoga) at depths between a few inches to greater than 7 feet. A well log for a water well approximately 850 feet southeast of the Project Corridor indicated topsoil was present to 6 feet, with alternating layers of basalt, cinders, pumice, and conglomerate encountered from 6 feet to 660 feet, the maximum depth drilled.

A sample of Oregon Water Resources Department (OWRD) boring logs for water wells in the vicinity of the Project Corridor were reviewed (OWRD, 2024). There were no OWRD logs available along or within the Corridor. Soils encountered were silts to depths between 5 and 12 feet or gravel and weathered basalt up to 15 feet. These soils, gravel and weathered basalt were underlain by basalt to depths up to 40 feet (the maximum depth drilled).

2.1.2 Hydrogeology

EDR indicated a water well located approximately 850 feet southeast of the Project Corridor first encountered water at a depth of 597 feet and the static water level depth did not change. The well is 660 feet deep and was installed in July 1974.

A review of water well records filed with the OWRD indicates that groundwater was not encountered in borings and wells installed to a maximum depth of 465 feet within or in the general vicinity of the Project Corridor (OWRD, 2024).

2.1.3 Topography

According to the United States Geologic Survey (USGS) 7.5-minute Bend Quadrangle Maps (2020), the Project Corridor is within a relatively flat area with an elevation of approximately 3,730 feet mean sea level (msl). The eastern portion of the Corridor rises uphill approximately 10 feet when heading east between SE Quill Pl and the eastern project terminus. Nearby hills to the southwest and southeast 3,780 feet msl to 3,750 feet msl, respectively.

The nearest water bodies are the Central-Oregon Canal adjacent south and west to the western portion of the Corridor. The Canal flows west to east before it turns and flows south. The 2020 USGS topographic map indicates there are two smaller canals that are connected to the Central-Oregon Canal within and south of the Corridor. The Arnold Canal discharges at the west bank of the Central-Oregon Canal southeast of the former American Lp alignment within the Corridor. An unnamed canal south of the Corridor along the Central-Oregon Canal flows from the east bank of the Central-Oregon Canal to the northeast. Aerial photos from 1938 to the present indicate a utility corridor is present above the Central-Oregon Canal at the confluence of the Central-Oregon Canal and Arnold Canal. The Central-Oregon Canal was observed during the site reconnaissance. However, the Arnold Canal, portions of the utility corridor above the Central-Oregon Canal and unnamed canal were not observed during the site reconnaissance due to limited visibility and/or no permission to enter private lands.

The Deschutes River is approximately 1.3 miles northwest of the western Project Corridor terminus and flows to the north. Based on the topography and surface water bodies around the Project Corridor, deep groundwater is presumed to flow to the north in the region, with varying shallow groundwater flow direction (if shallow groundwater is present) at and in the immediate vicinity of the canals.

2.2 Observations

A site reconnaissance of the Project Corridor was conducted on September 20, 2024. The reconnaissance consisted of systematically traversing the Project Corridor and viewing adjoining

properties from roadways and public access areas. Access was limited and/or inaccessible on private property that prevented access to and/or there was limited visibility from the right-of-way at the following locations: the BNSF railroad property north of SE Reed Market Rd and low-lying areas between the rail alignment and the southern portion of 20685 SE Reed Market Rd; the Central-Oregon Canal at the Arnold canal and above-water utility corridor confluence locations; and the interiors of the private properties at 1110 and 20685 SE Reed Market Rd, 61560 SE American Lp, and the following properties adjacent to the Corridor: 1133 and 1177 SE 9th St.

Land use adjacent to the Project Corridor is predominantly commercial/light industrial development, with residential development along the eastern corridor south of SE Reed Market Rd and east of the BNSF railroad alignment. Table 1 below summarizes potential sources of hazardous substances identified during the site reconnaissance.

Table 1: Potential Sources Identified During Site Reconnaissance

Potential Sources of Hazardous Substances	Present?
Heating oil tanks	No
Aboveground Storage Tanks (ASTs)	Yes
USTs, fill and vent pipes, fuel dispensers	No
Other hazardous substance containers	No
Hazardous waste generation	No
Oil water separators, dry wells or floor/storm drains	Yes
Septic systems	No
Stains or odors	No
Stressed vegetation	No
Solid waste	Yes
Suspect asbestos-containing materials	No
Suspect lead-based paint	Yes
Potential PCB-containing equipment	No
Florescent or mercury vapor light bulbs	No
Treated timbers	Yes
Water wells or monitoring wells	No

A summary of our site reconnaissance is detailed below. The summary starts at the southeast corner of the Project Corridor and continues clockwise around the corridor. Figure 2 (Appendix A) shows the Project Corridor and adjoining properties. Photographs documenting reconnaissance observations are included in Appendix B. The AASHTO Initial Site Assessment (ISA) Checklist is provided in Appendix C.

- Recently constructed residential properties are adjacent south and southeast to the Project Corridor east of the intersection of SE Quill Pl and SE Reed Market Rd to the Corridor's eastern terminus (Photos 1 and 2).
- Recently constructed residences are west of the intersection of SE Quill Pl and SE Reed Market Rd and adjacent south of the Corridor to the bicycle and pedestrian path. The terminus of SE Iron Horse Ln is also south of the Corridor (Photos 3 and 6). A pad-mounted transformer is within the Corridor north of 61607 SE Quill Pl.
- A below-grade stormwater retention feature is within the Project Corridor, north of the terminus of SE Iron Horse Ln, north and northeast of the bicycle and pedestrian path, and south of the intersection of SE 9th St and SE Reed Market Rd is (Photos 4, 5 and 6).
- The bicycle and pedestrian path is perpendicular to and south of SE Reed Market Rd and the Project Corridor; and is west of the residences along SE Iron Horse Ln and east of the BNSF railroad alignment (Photos 7 and 9).
- The BNSF railway crossing at SE Reed Market Rd is approximately perpendicular to the roadway. Rail crossing signals are present on the north side, center, and south side of the roadway. The rail alignment is elevated above the surrounding topography south and north of SE Reed Market Rd. Miscellaneous building materials and trash were within the railway alignment to the north and south of SE Reed Market Rd (Photos 8, 10, and 11).
- Adjacent south of SE Reed Market Rd, west of the BNSF railway alignment and within the Corridor is Mars Auto Detailing and Reconditioning (20685 SE Reed Market Rd) (Photo 12). A pad-mounted transformer was west of the building and between the building, sidewalk, and driveway. The transformer's PCB content was not noted.
- Reed Market Storage, also within the Corridor, is south of Mars Auto Detailing and Reconditioning (20685 SE Reed Market Rd), and listed with the same address.
- The interiors of the Mars Auto Detailing and storage business operations were not visible from public rights-of-way and access to the property was not available at the time of the site reconnaissance. The areas that was not visible and/or able to be accessed are noted on Appendix A, Figure 2.
- North of Mars Auto Detailing and Reconditioning beyond SE Reed Market Rd and within the Corridor was Northwest Staple Supply Bend and Legacy Auto Repair (1110 SE Reed Market Rd) (Photo 13). A parking lot for the auto repair facility is adjacent southeast to

the building and adjacent west to the northern railroad alignment (Photo 14). The 1110 SE Reed Market Rd parcel is included within the Project Corridor. Evidence of a release (i.e., significant stained pavement and soil, stressed vegetation, and/or odors) was not observed in the auto parking area. The rear of the building and property could not be observed from the right-of way, and access to the property was not granted at the time of the site reconnaissance. The area that was not visible and/or able to be accessed is noted on Appendix A, Figure 2.

- The former SE American Lp roadway and bridge over the Central-Oregon Canal are within the Corridor and south of SE Reed Market Rd and west of 20685 SE Reed Market Rd (Photos 15 and 16).
- The portion of the Corridor on the 61560 American Ln parcel between the former SE American Lp roadway and the Central-Oregon Canal, including the utility conduit over the Canal, were not able to be closely inspected due to vehicle parking and business activities that prevented visibility from the right-of-way. Access to the parcel was not provided at the time of the site reconnaissance. The area that was not visible and/or able to be accessed is noted on Appendix A, Figure 2.
- West of the former SE American Lp roadway and immediately south of the Corridor is the Central-Oregon Canal (Photo 17). A commercial/light industrial property with multiple businesses are south beyond the Canal (60580 SE American Ln) and are discussed later herein.
- At the western terminus and south of the Project Corridor is the intersection of SE American Ln and SE Reed Market Rd (Photo 18).
- SE American Ln has a bridge over the Central-Oregon Canal, and the Canal is immediately south of SE Reed Market Rd. The roadway, bridge and Canal are within the Corridor. Commercial/light industrial properties are south of the Canal and to the east and west of SE American Ln (Auto Body Concepts at 61585 SE American Lp on the west side; and Frontier Precision, Bend On-Site Screening and Display It Big at 61580 SE American Ln on the east side) (Photos 19 and 20). A stormwater retention feature is located at the northwest corner of the intersection of SE American Lp and SE American Ln. An air scrubber system is on the eastern wall of 61585 SE American Lp building (Auto Body Concepts).
- The following commercial/light industrial properties are northwest and north of SE Reed Market Rd and SE American Ln intersection: 1141 SE Centennial Ct (building housing Reed Pub, Mike's Auto Parts shop, and a roofing company) and 1151 SE Centennial Ct (Reed Market Mall with a canopy and truck accessories shop, roof rack shop, safety supply shop, and staging spaces and design studio) (Photo 21, 22 and 23). A pole-mounted transformer was in the Corridor south of the 1151 SE Centennial Ct building.

- The commercial/light industrial property at 1110 SE Reed Market Rd (Northwest Staple Supply Bend and Legacy Auto Repair) is within the Corridor (Photos 13, 14, 24). A parking lot for the auto repair facility is adjacent southeast to the building and adjacent west to the northern railroad alignment (Photo 14). Evidence of a release (i.e., significant stained pavement and soil, stressed vegetation, and/or odors) was not observed. The rear of the building and property could not be observed from the right-of way, and access to the property was not granted at the time of the site reconnaissance. The area that was not visible and/or able to be accessed is noted on Appendix A, Figure 2.
- The BNSF railroad intersection had railroad signals on the north side, central, and south side of the SE Reed Market Rd alignment (Photo 25) and had a railroad signal box and pole-mounted transformer at the northwest corner of the railway and SE Reed Market Rd intersection (Photos 26, 27 and 28). Trash was visible beyond the signal box between the elevated railway and the adjacent 1110 SE Reed Market automobile parking area. The railway alignment south of SE Reed Market Rd and the bike/pedestrian path were visible from the north side of the railway and SE Reed Market Rd intersection (Photo 29). The ground below the elevated railway north of SE Reed Market Rd, particularly on the west side of the tracks and on the northern portion of the Project Corridor railway alignment, were not visible from the right of way and access to the railroad was not granted prior to the site reconnaissance. Areas with limited and/or no visibility are noted in Appendix A, Figure 2. Stormwater catch basins were present in the SE Reed Market Rd roadway west of the railroad intersection.
- The commercial/light industrial building at 1177 SE 9th St adjacent north of the Project Corridor and east of the railroad alignment was occupied by Spider City Brewing Company (Photo 30). A fenced-in area adjacent to the building's south wall had brewery equipment and tanks. The tanks were not labeled and are assumed to contain water or food grade products (i.e., not hazardous substances), and are not of environmental concern.
- The residences south of 1177 SE 9th St and south of the intersection of SE 9th St and SE Reed Market Rd are visible from 1177 SE 9th St (Photos 31 and 32).
- Light industrial/commercial businesses along SE 9th St include Specialty Automotive (1133 SE 9th St), UHAUL rental facility (1100 SE 9th St), Green Services Outdoor Power Equipment, Bend Glass & Mirror, Johnstone Supply (1080, 1088 and 1096 SE 9th St), and a building (1310 SE Reed Market Rd) with multiple businesses: Bend Park and Sell, Snap Fitness, Back in Action, Ralph Gracie Jiu-Jitsu, and Heritage Bend (Photos 33 through 39, 41 and 42). Pad-mounted power transformers were observed on the west side of SE 9th St by 1310 SE Reed Market Rd (Photo 35) and by 1080 SE 9th St; and along the west side of SE 9th St near the northeast corner of 1177 SE 9th property

boundary (Photo 36). The pad-mounted transformer on the west side of SE 9th St had a spill kit next to it and a note affixed to it stating, “take me & fix me”. Evidence of a release (stained soil or pad, stressed vegetation, and odor) was not observed at this or the other transformer along SE 9th St.

- The residences along SE Quill Pl were observed from the south-central portion of the 1310 SE Reed Market Rd property (i.e., the north side of SE Reed Market Rd) (Photo 40). Two pad-mounted transformers are on the east side of SE Quill Pl.
- The view from the eastern Project Corridor terminus shows the northern and southern sides of the Corridor with the commercial/light industrial business properties (1310 and 1350 SE Reed Market Rd) and residences south beyond SE Reed Market Rd, respectively (Photo 41).

Based on observations of land uses within the Project Corridor, several properties present an environmental concern to the Project. They include:

- Stormwater retention features and catch basins are present, and possibly dry wells at multiple locations along the Project Corridor. Because the features are adjacent to the roadway, and are sinks for roadway pollutants, there is the potential that the soil and/or sediment do not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed or retrofitted. In addition, stormwater system retrofits, upgrades, and/or drywell decommissioning may need to meet DEQ Underground Injection Control (UIC) Program requirements that include DEQ notifications and fees, soil and sediment testing, and reporting.
- The soils adjacent to the elevated railroad alignment may contain petroleum hydrocarbons, petroleum constituents, creosote, heavy metals and herbicides as the soils are sinks for railroad bed, track and or operations’ pollutants. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed.
- The soils adjacent to the Project Corridor roadways may contain petroleum hydrocarbons and heavy metals as they are sinks for roadway pollutants. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed.
- Soils within and adjacent to the previous and current auto repair facility operations at 1110 SE Reed Market Rd may be impacted by petroleum, heavy metals and solvents. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed.
- Treated timber utility poles are present within the Project Corridor and may be disturbed by Project construction.

- Pad-mounted transformers and utility poles with electrical transformers will require coordination with utility providers for proper removal.

3.0 HISTORICAL RECORDS

3.1 Topographical Maps

Topographical maps dated 1926, 1929, 1962, 1975, 1981, 2014, 2017 and 2020 obtained from EDR were reviewed to identify historical land uses, as described below. A copy of the EDR Historical Topo Map Report is included in Appendix D.

1925 – SE Reed Market Rd is present as an improved roadway, and an unnamed improved roadway perpendicular to SE Reed Market Rd is north of SE Reed Market Rd and continues unimproved south of Reed Market Rd. Two structures are shown at the northwest corner of the Project Corridor and one structure is located near the southeast corner of the Corridor. The Central-Oregon Canal is present.

1929 – The Project Corridor appears unchanged.

1962 – The unnamed roadway south of SE Reed Market Rd and buildings northwest of the Corridor are no longer present. The current railroad alignment and Central-Oregon Canal are shown, with a smaller channel within the Project Corridor and one channel located south of the Corridor. There are no changes to SE Reed Market Rd alignment nor to the building near the southeast corner of the Corridor.

1975 – The Project Corridor appears unchanged. There is new development (roadways and buildings) to the north, northwest and southeast of the Corridor.

1981 – The Project Corridor appears unchanged with the exception of the removal of the structure southeast of the Corridor.

2014 – The Project Corridor appears unchanged. The majority of the area surrounding the Project Corridor is shown as generally developed with the current roadways with the exception of the residential development at the southeastern corner of the Corridor.

2017 – The Project Corridor appears unchanged.

2020 – The Project Corridor appears unchanged.

Based our review, the continued presence of a railway with its ballast and treated railroad ties may pose an environmental concern with possible petroleum, creosote, metals and herbicide contamination in shallow soils adjacent to the railroad alignment within the Project Corridor.

3.2 Aerial Photographs

Aerial photographs dated 1938, 1943, 1951, 1959, 1968, 1973, 1979, 1982, 1994, 2000, 2005, 2009, 2012, 2016 and 2020 obtained from EDR and aerial photographs dated 2022, 2023 and 2024 from Google Earth were reviewed to identify historical land uses, as described below. A copy of the EDR Aerial Photo Decade Report is included in Appendix D.

1938 – SE Reed Market Rd is present with predominantly undeveloped/agricultural land uses along the Project Corridor. The current railroad alignment and Central-Oregon Canal are present, along with smaller channels that enter/exit the Central-Oregon Canal. A roadway perpendicular to and running north-south of SE Reed Market Rd is present. Agricultural structures (barns and outbuildings) and a residence are within and adjacent to the southeastern portion of the Corridor (i.e., at and east of the current SE Quill alignment and within the current SE Reed Market Rd alignment and the residential development [Appendix A, Figure 2]). A residence or outbuildings are located within the northwestern Corridor adjacent west of the railroad tracks and north of SE Reed Market Rd (i.e., the current 1110 SE Reed and 1151 and 1182 SE Centennial Ct parcels). A bridge or utility corridor is above the Central-Oregon Canal and extends from the northernmost, smaller channel that exits/enters the Canal to a canal/drainage network located south and east of the previously mentioned agricultural structures and residence adjacent southeast of the Corridor. This bridge/utility corridor is in the same location as the current utility corridor suspended above the Central-Oregon Canal. A large structure, possibly a barn, and smaller buildings or residence is located north of the Corridor on the current 1080 SE 9th St parcel.

1943 – There are no changes to the Corridor with the exception of the removal of barns / large agricultural structures within and adjacent to the southeast Corridor (near the current SE Quill Pl and SE Reed Market Rd).

1951 – There are no changes to the Corridor with the exception of the removal of additional agricultural structures southeast of the Corridor and the roadway south of SE Reed Market Blvd is no longer present.

1959 – There are no changes to the Corridor with the exception of the presence of an unimproved roadway along the northern and eastern Central-Oregon Canal bank, unimproved roadways in the undeveloped land northwest of the Corridor, and the removal of almost all agricultural structures and the canal channel southeast of the Corridor.

1968 – There are no changes to the Project Corridor except for unimproved roadways parallel to the railroad tracks north of SE Reed Market Rd.

1973 – There are no changes to the Project Corridor.

1979 – There are no changes to the Project Corridor except for the development of the adjacent northwest property to the Corridor as it is currently (1110 SE Reed Market Rd) and a pond approximately 200 feet north with a building beyond. The SE American Lp bridge and roadway and American Ln roadway (no bridge) were also constructed by 1979. A residence was present southeast of the eastern terminus of the Corridor.

1982 – There are no changes to the Project Corridor with the exception of possible roadway improvements (widening) along SE Reed Market Rd.

1994 – There are no changes to the Project Corridor except for the removal of the unnamed roadway located adjacent east of the railroad and north of SE Reed Market Rd and the construction of SE 9th St as it is currently. Additional roadway improvements (widening and sidewalks) were present along SE Reed Market Rd. New light industrial buildings were present south and southwest of the corridor along SE American Ln and SE American Lp.

2000 – Increased light industrial and commercial development is present within and adjacent south and southwest of the Corridor along American Ln and American Lp, adjacent to the northeast corner of the Corridor (1310 SE Reed Market Rd), and beyond the corridor to the east (gas station property at SE 15th St) and northwest (the construction of SE Paiute Wy and SE Centennial Ct). An unnamed roadway was constructed between SE American Lp and the Central-Oregon Canal.

2005 – There were no changes to the Project Corridor except for increased light industrial and commercial infill development adjacent to the southwest along SE American Lp and adjacent northwest along SE Reed Market Rd and SE Centennial Ct.

2009 – The only changes to the Project Corridor were more commercial / light industrial infill development along the northeastern Corridor (1350 SE Reed Market Rd), central Corridor (1080 and 1177 SE 9th St and 20685 SE Reed Market Rd) and the northwestern Corridor (1151 SE Centennial Ct).

2012 – There are no changes to the Project Corridor.

2016 – There are no changes to the Project Corridor.

2020 – There are no changes to the Project Corridor except for the redevelopment (grading stage) of the former agricultural and residential properties adjacent southeast of the Corridor into the current residences along SE Quill Pl, SE Depot Loop, and SE Iron Horse Ln. The former agricultural canal channel(s) were filled in and/or removed.

2022 – There are no changes to the Project Corridor except for the construction of the current homes southeast of the Corridor.

2023 – There are no changes to the Project Corridor.

2024 – There are no changes to the Project Corridor.

Based our review, historical agricultural / barn structures that were located within the Project Corridor at SE Reed Market Rd and SE Quill Pl that may have had underground storage tank for farm equipment fuel or heating oil storage (Appendix A, Figure 2). However, the 1982 and 1994 SE Reed Market Rd improvements (widening and sidewalks) and the recent residential redevelopment would have likely encountered a tank and/or petroleum contamination, if present, during roadway improvement and residential construction activities. Based on this information, the former agricultural land use and structures within and adjacent to the southeast Corridor are not of environmental concern.

Based our review, the continued presence of a railway with its ballast and treated railroad ties may pose an environmental concern with possible petroleum, petroleum constituents, PCBs, creosote, metals and herbicide contamination in shallow soils adjacent to the railroad alignment within the Project Corridor.

The fill material used to fill a previous canal channel at the Arnold Canal over-water utility corridor on the east bank of the Central-Oregon Canal is unknown (Appendix A, Figure 2). Although the canal area is limited, the fill material may not meet DEQ Clean Fill criteria and require disposal at a landfill if disturbed.

3.3 City Directory Listings

City Directory listings dated 1963, 1968, 1973, 1978, 1983, 1989, 1992, 1995, 2000, 2005, 2010, 2014, 2017 and 2020 obtained from EDR were reviewed. A copy of the EDR-City Directory Abstract is included in Appendix D.

The listings support other historical documents and observations made during the site reconnaissance, with the documented listing of:

- 1110 SE Reed Market Rd property continuously operating as auto service, transmission, and/or an auto body & paint facility between 1983 and 2000.
- 61585 SE American Lp as an auto body shop between 2000 and 2020.
- 61580 SE American Ln as coatings and screening between 2000 and 2020.
- 61560 SE American Ln as a transaxle repair between 2000 and 2020.
- 1151 SE Centennial Ct as a printing shop since 2010 and 2020.

There is only one documented release at the above-listed properties per the environmental records review: Autobody Concepts, Inc., 61585 SE American Lp (see Section 4.0 for details). This facility had contaminated drywell sediment below DEQ regulatory criteria that was removed

and disposed of off-site, and subsequently received a DEQ NFA determination. Based on this information, this site is not of environmental concern to the Project Corridor.

The newer commercial and light industrial facilities and operations along SE American Ln, SE American Lp and SE Centennial Ct likely operate(d) under current environmental regulations and are less likely to have released hazardous substances or petroleum products to the environment. Based on our review and the continuous auto repair, transmission repair, and auto body and paint operations from at least the 1980s through 2000 at 1110 SE Reed Market Rd, petroleum, solvent, and/or metals contamination may be present in soils and shallow groundwater (if present) within the Project Corridor on and adjacent to 1110 SE Reed Market Rd.

3.4 Sanborn Fire Insurance Maps

There was no coverage of the Project Corridor in the Sanborn Fire Insurance Maps. A copy of the EDR Certified Sanborn® Map Report for no coverage is included in Appendix D.

4.0 ENVRIONMENTAL RECORDS REVIEW

Available Federal and State records for identified hazardous waste sites were reviewed using EDR, supplemented using information available through DEQ on-line databases and the Oregon State Fire Marshal (OSFM) hazardous substance incident database. A copy of the EDR Radius Map™ Report with GeoCheck® is in Appendix E. Table 2 shows the database search radii used in our review, along with the total number of sites found for each database searched and whether the site is on or adjoining the Project Corridor.

Table 2: Environmental Database Minimum Search Radii

Database Record	Search Radius (Miles)	Total Sites Found	On or Adjoining Project Corridor
State-Equivalent NPL List: Environmental Cleanup Site Information System (ECSIS)	0.5	4	1
Oregon Permitted Landfill List	0.5	0	0
State Leaking Underground Storage Tank (LUST) List	0.25	1	0
Federal Resource Conservation and Recovery Act (RCRA) Generators List	Site and Adjoining	2	2
OSFM Spill Response List	Site and Adjoining	1	1

Database Record	Search Radius (Miles)	Total Sites Found	On or Adjoining Project Corridor
State Certified Underground Storage Tanks (UST) List	Site and Adjoining	0	0

4.1 Environmental Cleanup Site Information System (ECSIS)

DEQ ECSIS listed sites include suspected and confirmed hazardous waste sites. There are 4 ECSIS sites located within 0.5 miles of the Project Corridor, with 1 ECSIS site adjacent to the Project Corridor. All 4 of the ECSI sites within 0.5 miles of the Project Corridor are not of environmental concern based on the proposed construction activities, their distance from the Project Corridor, only soil was impacted, the sites are cross- to down-gradient from the Project Corridor, and/or on their No Further Action status. Table 3 below summarizes the regulatory status research findings for each ECSI site, and the sites' locations are shown on Figures A1 and/or A2.

Table 3: ECSI Sites Within 0.5 Miles of the Project Corridor

Site Name and Location	DEQ ID#	Approx. Dist. (Miles)	Dir. (N,S, W,E)	Regulatory Status/Notes
Autobody Concepts, Inc. 61585 American Lp Bend, OR 97702 (Site A)	4969	0.00947 to 0.034 (Adjacent)	W/S	**Status:** Closed The sediment from a drywell used to collect stormwater from two on-site parking lot catch basins and building roof was sampled for disposal characterization. The sediment was analyzed for diesel and oil, and RCRA8 metals. Diesel was detected at 16,000 milligrams per kilogram (mg/kg), oil at 6,970 mg/kg, and the only detected metal was barium at 32 mg/kg. DEQ indicated these data are within acceptable ranges of DEQ's Risk-Based Cleanup Rules. The drywell and catch basin sediment were removed and transported off-site for disposal. Additional sampling was not conducted since all sediment was successfully removed and

Site Name and Location	DEQ ID#	Approx. Dist. (Miles)	Dir. (N,S, W,E)	Regulatory Status/Notes
				the lab data were below DEQ RBCs. DEQ issued the facility an NFA November 13, 2008. The drywell is registered and Rule Authorized with DEQ's UIC Program.
Pacific Lumber 1006 SE 9th St Bend, OR 97702 (Site B)	5667	0.171	N	**Status:** Suspect Site screening of the former mill is recommended. No additional information was available.
Sanderson Co. – Parcel 1 Brosterhoue Rd & American Ln. Bend, OR 97702 (Site C)	1247	0.489	S/SE	**Status:** Open An unknown tar-like substance (bunker, crude, or other oil) extended 38 inches into the subsurface on several acres of the site. The site was broken into two parcels: Parcel 1 and Parcel 2. Parcel 1 is vacant land adjacent to the BNSF rail alignment, and there are historical railroad uses of Parcel 1. In addition, Parcel 1 is where contaminated soil from Parcel 2 was consolidated in a cap (Parcel 2 is ECSI Site No. 3127 and has an NFA).
Bend Plating 550 SE Bridgeford Blvd. Bend, OR 97702 (Site D)	5469	0.491	N	**Status:** Suspect Site screening is recommended based on its operations (i.e., plating). No additional information was available.

4.2 Solid Waste Landfills

There are no Oregon permitted landfills listed within 0.5 miles of the Project Corridor, and there are no landfill sites adjacent to or within the Project Corridor.

4.3 Leaking Underground Storage Tanks (LUSTs)

There is 1 DEQ LUST site located within 0.25 miles of the Project Corridor, as described in Table 4 below and shown on Figures A1 and A2. The LUST site does not adjoin the Project Corridor and is approximately 400 feet east of the eastern terminus of the Corridor. Only soil was impacted at the site, and the site was remediated by removing contaminated soil. Confirmatory sampling showed no contamination had migrated into the Project Corridor. In addition, this site is closed. Based on this information, the site's No Further Action status, and the distance from the Project Corridor, this site is not of environmental concern.

Table 4: LUST Sites Within 0.25 Miles of the Project Corridor

Site Name and Location	DEQ ID#	Approx. Dist. (Miles)	Dir. (N,S, W,E)	Regulatory Status/Notes
Expressway Store Inc. 1450 SE Reed Market Rd Bend, OR 97702 (Site E)	09-00-0008	0.077	NNW	**Status:** Closed A petroleum release was discovered during June 2000 tank upgrading activities. The release was beneath the "turbine" for an 8,000-gallon gasoline UST. Approximately 13.69 tons of petroleum-contaminated soil were removed and transported off-site for disposal. Groundwater was not encountered. Soil samples were collected from the excavation and stockpiled contaminated soil. Soil HCID results indicate there were only the following petroleum detections: one soil excavation sample with 13 mg/kg gasoline, and the stockpile sample with 1,300 mg/kg gasoline (which was transported to the landfill for disposal). The site meets DEQ Level 3 Soil Matrix Cleanup Criteria of 130 mg/kg. DEQ issued an NFA determination in November 2001.

4.4 Resource Conservation and Recovery Act (RCRA) Generators

RCRA generators are facilities that generate or store hazardous waste. There are 2 properties with hazardous waste generator listings each located within or adjoining the Project Corridor as described in Table 5 below and shown on Figures A1 and A2. These sites are not of environmental concern based on their not having any violations.

Table 5: RCRA Generators Within or Adjoining the Project Corridor

Site Name and Location	EPA ID#	Approx. Dist. (Miles)	Dir. (N,S, W,E)	Regulatory Status/Notes
Horizon Auto Body 1092 SE Reed Market Rd Bend, OR 97702 (Site F)	ORD11415 1335	0.000 (Within and Adjacent)	N	Horizon Auto Body is verified as Not a Generator, and no violations were found.
Autobody Concepts, Inc. 61585 American Lp Bend, OR 97702 (Site A)	ORQ00000 2402	0.00947 (Adjacent)	W/S	Autobody Concepts, Inc. is verified as Not a Generator, and no violations were found.

4.5 Hazardous Substance Incidents

The OSFM hazardous substance incident database listed one spill or incident adjoining or within the Project Corridor. The gasoline spill is described in Table 6 below and is shown on Figures A1 and A2. This site is not of environmental concern based on their not having any regulatory cleanup or spill listings with DEQ or EPA, and that the spill was controlled and confined by the first responders.

Table 6: Hazardous Substance incidents Within or Adjoining the Project Corridor

Site Name and Location	Incident #	Approx. Dist. (Miles)	Dir. (N,S, W,E)	Regulatory Status/Notes
Bar or Nightclub 1141 SE Centennial Ct Bend, OR 97702 (Site G)	1030938	0.000 (Within and Adjacent)	NW	A spill of gasoline or flammable liquid spill was reported on February 16, 2010, and controlled and confined by Bend Fire Department. No additional information was available.

4.6 Underground Storage Tanks (USTs)

There are no DEQ permitted UST facilities listed adjacent to or within the Project Corridor.

5.0 ADDITIONAL RESEARCH

Additional research was not necessary.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of this HMA, we reached the following conclusions:

- Historical agricultural / barn structures that were located within the Project Corridor at SE Reed Market Rd and SE Quill Pl that may have had underground storage tank for farm equipment fuel or heating oil storage (Appendix A, Figure 2). However, the 1982 and 1994 SE Reed Market Rd improvements (widening and sidewalks) and the recent residential redevelopment would have likely encountered a tank and/or petroleum contamination, if present, during roadway improvement and residential construction activities. Based on this information, the former agricultural land use and structures within and adjacent to the southeast Corridor are not of environmental concern.

- Sites listed in regulatory databases with known and potential contamination were identified adjacent to the Project Corridor; however, considering proposed construction activities, their distance from the Project Corridor, the limited extent of soil and groundwater contamination, the sites are cross- to down-gradient from the Project Corridor, and/or on their No Further Action status the sites are not of environmental concern to the project. No further investigation is recommended regarding these sites.

- Soils and groundwater (if present) within and adjacent to the 1110 SE Reed Market Rd property from previous and current auto repair facility operations may be impacted by petroleum, heavy metals and/or solvents. This property is located within the Project Corridor. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed, and groundwater (if present) may need to be pre-treated prior to discharge to the municipal sewer/storm system and or hauled off-site for disposal during Project construction.

- The soils adjacent to the elevated railroad alignment may contain petroleum hydrocarbons, petroleum constituents, creosote, heavy metals and/or herbicides as the soils are sinks for railroad bed, track and or operations' pollutants. There is the potential

that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed.

- The fill material used to fill a previous canal channel at the Arnold Canal over-water utility corridor on the east bank of the Central-Oregon Canal is unknown (Appendix A, Figure 2). Although the canal area is limited, the fill material may not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed.

- Stormwater features and catch basins are present, and possibly dry wells at multiple locations along the Project Corridor. Because the features are adjacent to the roadway, and are sinks for roadway pollutants, there is the potential that the soil and/or sediment do not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed or retrofitted. In addition, stormwater system retrofits, upgrades, and/or drywell decommissioning may need to meet DEQ Underground Injection Control (UIC) Program requirements that include DEQ notifications and fees, soil and sediment testing, and reporting.

- The soils and Central-Oregon Canal sediment adjacent to and within the Project Corridor roadways may contain petroleum hydrocarbons and heavy metals as they are sinks for roadway pollutants. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed. If sediment is present in the Canal where Project construction activities are to occur, the sediment may require characterization prior to their disturbance and disposal.

- Treated timber utility poles are present within the Project Corridor and may be disturbed by Project construction. Poles with electrical transformers will require coordination with utility providers for proper removal.

- Pad-mounted transformers and utility poles with electrical transformers will require coordination with utility providers for proper removal

The recommendations for the City of Bend are listed below.

1. If soils and/or groundwater on the 1110 SE Reed Market Rd property (i.e., current and former auto repair shop) will be disturbed during Project construction and/or if the property will be acquired, a site investigation is recommended to determine whether soils and if present, groundwater, have been impacted by petroleum, solvents and/or heavy metals.

2. DEQ's Materials Management Program may allow the reuse of excavated roadway adjacent soils, railway adjacent soils, and stormwater system soils (and possibly sediment) on lots zoned industrial and/or in rights-of way. However, because the reuse of excavated soils on the Project may be limited in volume and can't come into contact with or adversely impact groundwater or surface water (including stormwater sheet flow), we recommend sampling shoulder, stormwater feature, and railway soils that will be disturbed by construction activities and completing a Clean Fill Determination for managing the material.
3. If the ground will be disturbed within the former, filled-in canal on the east bank of the Central-Oregon Canal during Project construction, soil and groundwater (if present) sampling is recommended to determine whether soils and groundwater have been impacted by petroleum and/or heavy metals. These data can be used to complete a Clean Fill Determination for soils (see item 2 above) for managing material and for dewatering disposal options (e.g., discharge to the municipal storm/sewer system, to the ground surface, or to a deposal or recycling facility).
4. Stormwater system retrofits, upgrades, and/or drywell decommissioning may need to meet DEQ Underground Injection Control (UIC) Program requirements that include DEQ notifications and fees, soil and sediment testing, and reporting.

7.0 LIMITATIONS

This HMA was conducted according to AASHTO criteria for Hazardous Materials Corridor Assessment and does not represent an American Society for Testing and Materials (ASTM) Phase 1 Environmental Site Assessment. Performance of a HMA is intended to reduce, but not eliminate, uncertainty regarding the existence of environmental conditions. The AASHTO practice is intended primarily as an approach to identifying potential sources of contamination that could impact a project. Based on the AASHTO guide, this HMA constitutes appropriate inquiry into current and past uses of properties within the Project Corridor and is consistent with good commercial or customary practice. However, no environmental assessment can wholly eliminate uncertainty regarding the potential for environmental conditions in connection with a project.

Coles + Betts Environmental Consulting, LLC and Reynolds Engineering, LLC have reviewed historical records and conducted a visual reconnaissance of the Project area and adjoining properties. We have examined and relied on documents referenced in this report and have not conducted an independent examination of the facts contained in referenced materials and statements. We have assumed that these documents are genuine, and that the information and statements provided in these documents are true and accurate. Data generated from our site reconnaissance reflect what can be reasonably inferred or what was obvious by direct visual

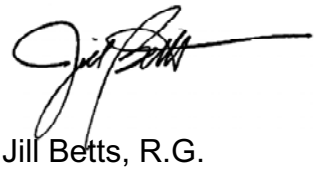
observation. Coles + Betts Environmental Consulting, LLC and Reynolds Engineering, LLC assumes no responsibility for identifying characteristics that were not readily identifiable by visual reconnaissance at the time of our site visit.

Coles + Betts Environmental Consulting, LLC and Reynolds Engineering, LLC have prepared this report in a professional manner, using that level of skill and care normally exercised for similar projects under similar conditions by reputable and competent environmental consultants currently practicing in the area, and in accordance with the terms and conditions set forth in our contract with DOWL. Coles + Betts Environmental Consulting, LLC and Reynolds Engineering, LLC are not responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this report was prepared. Facts and conditions referenced in this report may change over time, and the conclusions set forth here are applicable to the facts and conditions as described at the time of this report. We believe that the conditions stated here are factual, but no guarantee is made or implied.

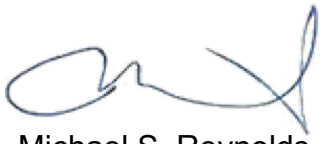
This HMA was prepared for use by the City of Bend and their Project design team lead by DOWL, LLC. Any reliance on this report by other parties will require written permission from an authorized City of Bend representative.

COLES + BETTS ENVIRONMENTAL CONSULTING, LLC and REYNOLDS ENGINEERING, LLC

This Hazardous Materials Corridor Assessment was conducted by:



Jill Betts, R.G.
Principal
Coles + Betts Environmental Consulting, LLC



Michael S. Reynolds, PE
Environmental Engineer
Reynolds Engineering, LLC

8.0 REFERENCES

American Association of State Highway and Transportation Officials (AASHTO), 1990, Hazardous Waste Guide for Project Development, February.

Oregon Department of Geology and Mineral Industries (DOGAMI), 2024, Geologic Map of Oregon Interactive Map: https://www.oregongeology.org/geologicmap/index.htm

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DEQ, 2019, Letter to ODOT RE: Beneficial Use Determination (BUD)-20181204), Highway shoulder soil throughout Oregon, July 2

Oregon Department of Transportation (ODOT), 2024, *HazMat Program Manual*, Geological Engineering and Engineering Geology Section, Delivery & Operations Division, May.

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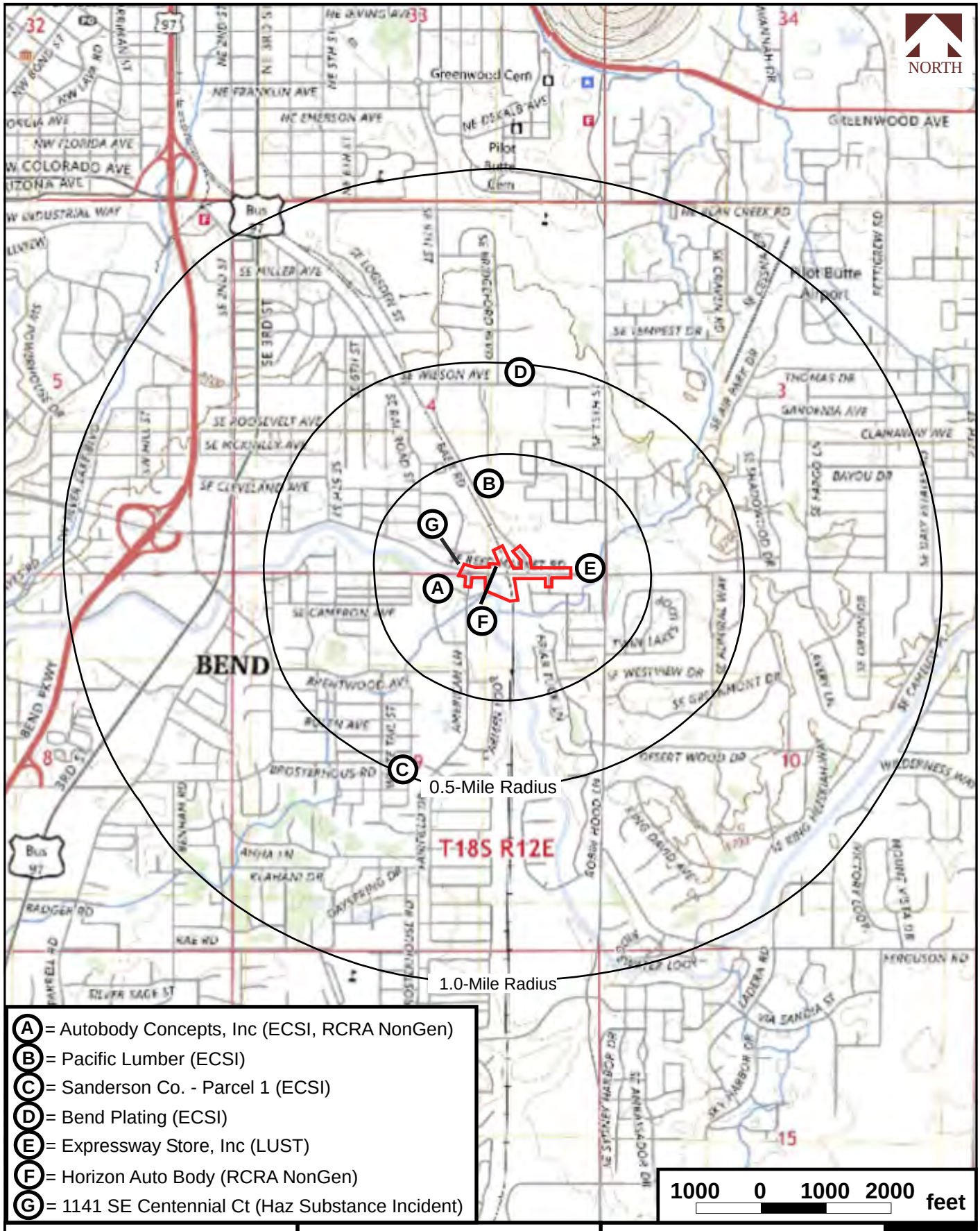
Oregon Water Resources Department (OWRD), 2024, Well Report Mapping Tool: https://apps.wrd.state.or.us/apps/gw/wl_well_report_map/Default.aspx

APPENDIX A

Figures



COLES+BETTS environmental consulting

Hazardous Materials Assessment
SE Reed Market Rd
Bend, Deschutes County, OR

VICINITY MAP

September 2024 C+BEC Job# 493

Figure No. **1**

= Project Corridor
= Stormwater Retention Feature
= Pole-Mounted Transformer
PMT = Pad-Mounted Transformer
= Former Canal
Air = Air Filtration / Discharge System
= Area of Discarded Building Materials / Trash
= Area unable to observe due to limited visibility or access
= Footprint of former agricultural / barn buildings

Ⓐ Autobody Concepts Inc (ECSI, RCRA, NonGen)
Ⓔ Expressway Store Inc (LUST)
Ⓕ Horizon Auto Body (RCRA, NonGen)
Ⓖ 1141 SE Centennial Ct (Haz Substance incident)

S Suntree St
1080 SE 9th
SE 9th St
1100 SE 9th
SE Paiute Way
SE Centennial Ct
1182 Cent
1133 SE 9th
1151 Cent
1141 Cent
1310 Reed
1350 Reed
1177 SE 9th
1110 Reed
SE Reed Market Rd
Central - Oregon Canal
20685 Reed
61585 Am Lp
61580 Am Ln
61560 Am Ln
SE American Lp
SE American Ln
Former Arnold Canal
20656
20657
20661
20665
20669
20673
20677
61607
61603
61599
61595
61591
61616
61612
61608
61604
61600
61596
SE Quill Pl
61606
61602
SE Depot Loop
SE Iron Horse Ln
Bike / Ped Path
20681
20685
20689
SE Lincoln Ln
PMT
E

N

100 0 100 200 feet

COLES+BETTS environmental consulting

Hazardous Materials Corridor Assessment
SE Reed Market Rd
Bend, Deschutes County, OR

SITE MAP
September 2024 C+BEC Job #493

Figure No. 2

APPENDIX B

Site Photographs



Photograph 1: View facing west from eastern project terminus on the south side of SE Reed Market Rd. The intersection of SE Reed Market Rd and SE Quill Pl is in the background on the left (south) side of SE Reed Market Rd. The commercial businesses within the building at 1310 SE Reed Market Rd, on the north side of SE Reed Market Rd, are on the right side of the photo.



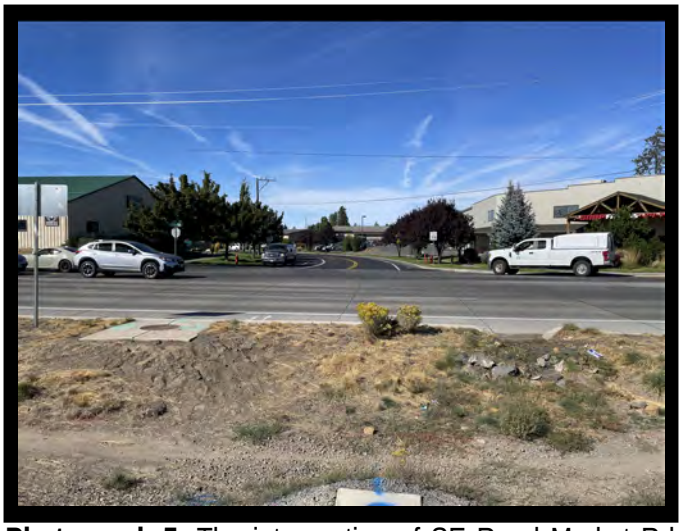
Photograph 2: View facing east of the intersection of SE Quill Pl and SE Reed Market Rd. The homes on the east side of SE Quill Pl are in the foreground (61616, 61612, 61608, 61604, 61600, and 61596 SE Quill Pl).



Photograph 3: View facing east from the south side of SE Reed Market Rd north of the terminus of SE Iron Horse Ln and east of the stormwater retention feature on the south side of SE Reed Market Rd. The commercial building (1310 SE Reed Market Rd) housing multiple commercial businesses on the north side of SE Reed Market Rd is on the left side of the photograph.



Photograph 4: View of the stormwater retention feature on the south side of SE Reed Market Rd and north of the terminus of SE Iron Horse Ln and the residential property at 20656 SE Iron Horse Ln. The stormwater feature is also south of the intersection of SE Reed Market Rd and SE 9th St. The commercial building west of SE 9th St (a brewery, 1177 SE 9th St) is on the north side of SE Reed Market Rd. The intersection of the railroad and SE Reed Market Rd is in the background.



Photograph 5: The intersection of SE Reed Market Rd and SE 9th St facing north from the south side of SE Reed Market Rd at the stormwater retention feature. The commercial building (1310 SE Reed Market Rd) is in the right background, or east of the intersection, and the commercial building west of the intersection (1177 SE 9th St) is also shown.



Photograph 6: View of the bike/pedestrian path intersection with the south sidewalk of SE Reed Market Rd facing East. The adjacent south residence at 20656 SE Iron Horse Ln is in the right foreground, with residences beyond SE Iron Horse Ln in the background right. The intersection with SE 9th St and SE Reed Market Rd is on the north, or left, side of the photo.



Photograph 7: View of the bike/pedestrian path facing south. The path is south of SE Reed Market Rd between the SE Iron Horse Ln residences and the railroad alignment. The north side of the commercial/light industrial building at 20685 SE Reed Market Rd is in the background right.



Photograph 8: View of discarded building materials/trash within the greenspace between the railroad alignment and bike/pedestrian pathway. The photo is taken facing northwest, with the elevated railroad alignment and adjacent west commercial building (20685 Reed Market Rd) in the background. The rail crossing at SE Reed Market Way is in the upper right side of the photo, with the commercial building at 1110 SE Reed Market Rd in the background.



Photograph 9: View of the bike/pedestrian path facing north. Photo taken from the southern terminus of the project area along the railroad alignment south of SE Reed Market Rd. The homes adjacent west to SE Iron Horse Ln are shown.



Photograph 10: View facing south of the railroad alignment south of SE Reed Market Rd. The residences west of SE Iron Horse Ln and bike/pedestrian path are on the left side of the photo, and the commercial / light industrial businesses west of the railroad alignment (20685 and 61560 SE American Ln) are on the right side of the photo.



Photograph 11: View facing north of the railroad alignment north of SE Reed Market Rd. The commercial properties adjacent east of the railroad (1133 and 1177 SE 9th) and west of the railroad tracks are shown (1110 SE Reed Market Rd and 11511 and 1182 SE Centennial Ct). A pole-mounted transformer west of the northern railroad crossing at SE Reed Market Rd is in the left side of the photo.



Photograph 12: View facing east of the intersection of the railroad and SE Reed Market Rd from 20685 SE Reed Market Rd. The commercial building northeast of the railroad intersection is shown on the left side of the photo (1177 SE 9th St), and the building southwest of the railroad intersection (20685 SE Reed Market Rd) and its pad-mounted transformer are shown on the right side of the photo.



Photograph 13: View of 1110 SE Reed Market Rd from the south side of SE Reed Market Rd facing north. The eastern building is occupied by Legacy Auto Repair, and the western building is occupied by Northwest Staple Supply Bend.



Photograph 14: View of the auto parking area for Legacy auto repair (1110 SE Reed Market Rd) adjacent to the northwest corner of the railroad and SE Reed Market Rd intersection. Evidence of a release (significant stained pavement and soil, stressed vegetation, and/or odors) was not observed.



Photograph 15: View facing south of the abandoned SE American Lp alignment south of SE Reed Market Rd. The abandoned roadway includes a bridge over the Central-Oregon Canal. The adjacent commercial / light industrial buildings adjacent south to the project area are in the background (61560 SE American Ln on the left and 61580 SE American Ln on the right).



Photograph 16: View facing north of the abandoned SE American Lp alignment. SE Reed Market Rd with the commercial/light industrial building 1110 SE Reed Market Rd in the background.



Photograph 17: View facing west of the intersection of the abandoned SE American Lp alignment with the Central-Oregon canal (below-grade) and 61580 SE American Ln building on the left, and SE Reed Market Rd and 1151 SE Centennial Ct building on the right side of the photo. The intersection of SE American Ln and SE Reed Market Rd is in the background.



Photograph 18: View facing east of the intersection of SE Reed Market Rd and American Ln. The north side of SE Reed Market Rd (left side of photo) shows the commercial/light industrial buildings (1151 SE Centennial Ct in the foreground and 1110 SE Reed Market Rd in the background). The Central-Oregon Canal is below SE American Ln and adjacent south of SE Reed Market Rd.



Photograph 19: View facing north of SE American Ln and SE American Lp intersection. The intersection with SE Reed Market Rd is in the background. The commercial/light industrial building on the left (west) side of SE American Ln is 61585 SE American Lp and on the east (right) side of SE American Ln is 61580 SE American Ln. A stormwater retention feature is at the northwest corner of the American Ln and American Lp intersection.



Photograph 20: View facing south of SE American Ln at the intersection with SE Reed Market Rd. The bridge over the Central-Oregon Canal is in the foreground, and two commercial/light industrial buildings along SE American Ln are shown in the background (61580 SE American Ln and 61585 SE American Lp).



Photograph 21: View facing north at the intersection of SE American Ln and SE Reed Market Rd. The commercial / light industrial building north of the intersection (1151 SE Centennial Ct) is shown. A portion of the adjacent commercial/light industrial property (1141 SE Centennial Ct) adjacent northwest to the project area is shown on the left side of the photo.



Photograph 22: View facing east from the northwest corner of the project area, at the intersection of SE American Ln and SE Reed Market Rd.



Photograph 23: View facing west/southwest from the north side of SE Reed Market Rd of the intersection of SE Reed Market Rd and SE American Ln.



Photograph 24: View facing east from the north side of SE Reed Market Rd of the commercial/light industrial building at 1110 SE Reed Market Rd. 20685 SE Reed Market Rd adjacent south of the SE Reed Market Rd alignment is shown on the right side of the photo.



Photograph 25: View facing east of the intersection of SE Reed Market Rd and the railroad alignment. Photo taken from the north side of SE Reed Market Rd.



Photograph 26: View of the trash below the northwest corner of the SE Reed Market Rd and railroad alignment intersection. Photo taken facing north/northeast.



Photograph 27: View of the railroad alignment north of SE Reed Market Rd facing north/northwest. The commercial/light industrial buildings shown in the background are located at 1182 SE Centennial Ct.



Photograph 28: View of the railroad alignment north of SE Reed Market Rd facing west. The commercial/light industrial building shown along the roadway in the background is 1110 SE Reed Market Rd.



Photograph 29: View of the railroad alignment south of SE Reed Market Rd facing south. The commercial/light industrial building west of the railroad alignment is 20685 SE Reed Market Rd. The bike/pedestrian path and residences west of SE Iron Horse Ln are on the left side of the photo (east of the railroad).



Photograph 30: View of the north side of SE Reed Market Rd at 1177 SE 9th St. Brewery equipment, including above-ground tanks, are in the fenced area. A stormwater retention feature is in between the building and sidewalk. Photo taken facing east. The intersection of SE 9th St and SE Reed Market Rd is in the background.



Photograph 31: View of the south side of SE Reed Market Rd at the intersection of SE 9th St and SE Reed Market Rd. Photo taken facing southeast. The residences along SE Iron Horse Ln are shown beyond SE Reed Market Rd.



Photograph 32: View of the intersection of SE 9th St and SE Reed Market Rd from the northeast corner of the intersection facing west / southwest. The commercial / light industrial building at 1177 SE 9th St is in the background (right side of the photo / northwest corner of the intersection).



Photograph 33: View of SE 9th St facing southeast from the west side of SE 9th St near 1133 SE 9th St. The buildings in the background are 1100 SE 9th St and 1310 SE Reed Market Rd.



Photograph 34: View facing west from the east side of SE 9th St at 1080 SE 9th St. The commercial/light industrial buildings beyond SE 9th St are 1133 and 1177 SE 9th St.



Photograph 35: View of pad-mounted transformers near the northeast corner of the SE 9th St and SE Reed Market Rd intersection. The transformers are adjacent to 1310 SE Reed Market Rd.



Photograph 36: View of pad-mounted transformer with spill kit, and a note taped to it saying, “Take and Fix Me.” Evidence of a release (oil, staining, stressed vegetation) were not observed. View facing west near the driveway for 1133 SE 9th St.



Photograph 37: View facing south of the north side of the intersection of SE 9th St and SE Reed Market Rd. The residences and stormwater retention feature (below-grade) are beyond SE Reed Market Rd.



Photograph 38: View facing northwest from the northeast corner of the intersection of SE 9th St and SE Reed Market Rd.



Photograph 39: View of the north side of SE Reed Market Rd at the northeast corner of SE 9th St and SE Reed Market Rd facing east. The commercial building on the north side of SE Reed Market Rd (1310 SE Reed Market Rd) is shown. The residences adjacent south of SE Reed Market Rd near the intersection of SE Quill Pl are in the background.



Photograph 40: View of SE Quill Pl and SE Reed Market intersection from the north side of SE Reed Market Rd facing south.



Photograph 41: View facing west along the north side of SE Reed Market Rd at the commercial/light industrial building at 1310 SE Reed Market Rd.



Photograph 42: View from the northeastern project area terminus facing west/southwest, along the north side of SE Reed Market Rd. The intersection of SE Quill Pl is on the left side of the photo, and the commercial/light industrial building (1310 SE Reed Market Rd) is on the right side of the photo.

APPENDIX C

ISA Checklist

INITIAL SITE ASSESSMENT (ISA) CHECKLIST

Project Information

County: *Deschutes*	Route: *SE Reed Market Rd Between American Ln and 1350 SE Reed Market Rd (about 200 ft east of SE Quill Pl)*
Description: E*liminate the at-grade BNSF railroad crossing to increase both east-west traffic capacity for the City of Bend and improve multimodal safety along the traffic corridor. Proposed project elements are a new bridge over the railroad, a new bridge over the Central-Oregon Canal, and new retaining walls. Existing stormwater facilities will also be improved and/or new stormwater facilities will be added.*	
Does the project have potential hazardous waste involvement? *Unlikely to have or generate hazardous waste.* *Shoulder materials, shallow excavated soils, and stormwater retention features and drywell sediment may exceed DEQ Clean Fill criteria from use as a traffic corridor.* *Petroleum, metals and/or solvents may be present in soils from adjacent auto repair uses at 1110 SE Reed Market Rd.*	

Screening Criteria

1. Project Features: New R/W? *Yes*	Excavation? *Yes*	Relocate Utilities? *Yes*
2. Land Use History and Development Setting (urban/rural; industrial, commercial, agricultural, housing other – list) *Land Use History: Agriculture (grazing), rural residential, and undeveloped.* *Current Development: Commercial/light industrial throughout except for residential use south of SE Reed Market Ln and east of the BNSF railway alignment.*		
Current land uses: *Commercial/Light Industrial/Residential/* Previous land uses: *Rural residential/Agricultural (grazing)/Undeveloped* Adjacent land uses: *Residential/Commercial/Light Industrial*		
3. In-house record review: *Environmental Records from EDR, Oregon State Fire Marshal Spill Records, and on-line DEQ ECSI and LUST records.*		
4. Any known hazardous waste sites in vicinity? *Yes, but verified as non-generator.* If yes, identify and explain. *In Project Corridor:* • *Horizon Auto Body (1092 SE Reed Market Rd [i.e., 1110 SE Reed Market Rd]), RCRA NonGen* *Immediately Adjacent/Vicinity:* • *Autobody Concepts Inc. (61585 American Lp), Manifest*		
17 ECSI sites and 1 LUST site. *Only 1 ECSI site is adjacent to the Project Corridor: Autobody Concepts, Inc. (61585 American Lp), NFA. DEQ UIC program referral for dry well with subsurface contamination below risk-based concentrations. (The UIC is registered and Rule Authorized).* *The LUST file is for a current gas station at 1450 SE Reed Market Rd (0.077-mile east of the Project Corridor). The LUST file was closed in 2000.*		

Optional Records

County Assessor *Tax Maps*	Fire Dept *None*	Sanborn Maps *None*	Other *Aerials, Topos*

Take photos of sites or sketch

(Please see Appendix B of the HMCS report for site photographs.)

Visual Inspection

Storage Structures: *None*	Contamination: *None*	Potential asbestos containing

observed.	*observed.*	materials: *None observed.*
Underground tanks: *None observed.*	Surface Staining *De minimis oil staining in adjacent parking areas.*	Buildings: *A total of 4 within the Project Corridor: 2 associated with 1110 SE Reed Market Rd and 2 associated with 20685 SE Reed Market Rd.*
Aboveground tanks: *One observed within a fenced area immediately adjacent to 1177 SE 9th St (a brewery). The tank was not labeled and if used to store materials is assumed to store food grade materials, not hazardous substances.*	Oil sheen: *None observed.*	Sprayed-on fireproofing: *None observed.*
Sumps: *None observed.*	Odors: *None observed.*	Pipe wrap: *None observed.*
Ponds: *None observed.*	Stressed vegetation: *None observed.*	Floor tiles: *NA*
Transformers: *Numerous pole-mounted transformers and pad-mounted transformers along the corridor.*		

Comments:

- Access was limited and/or inaccessible on private property that prevented access to and/or there was limited visibility from the right of way at the following locations: the BNSF railroad property north of SE Reed Market Rd and low-lying areas between the rail alignment and the southern portion of 20685 SE Reed Market Rd; the Central-Oregon Canal at the Arnold canal and above-water utility corridor confluence locations; and the interiors of the private properties at 1110 and 20685 SE Reed Market Rd, 61560 SE American Lp, and 1133 and 1177 SE 9th St
- Stormwater retention features, catch basins and possibly dry wells are present at multiple locations along the Project Corridor. Because the features are adjacent to the roadway, and are sinks for roadway pollutants, there is the potential that the soil and/or sediment do not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed or retrofitted. In addition, stormwater system retrofits, upgrades, and/or drywell decommissioning may need to meet DEQ Underground Injection Control (UIC) Program requirements that include DEQ notifications and fees, soil and sediment testing, and reporting.
- An underground storage tank used to store farm

Conducted by: Jill Betts, RG
September 20, 2024

equipment fuel may have been used on adjacent former agricultural land in the vicinity of SE Quill Pl. This risk is eliminated as roadway improvements and recent residential development would have encountered a tank and/or contaminated soil. No tanks or releases at this location are listed in the regulatory databases reviewed for this HMA.

- Petroleum, metals and/or solvents from adjacent auto repair activities and vehicle storage areas adjacent northwest of the BNSF railroad and SE Reed Market (1110 SE Reed Market Rd) intersection may impact shallow soils within the Project Corridor at that area.
- The fill material used to fill a previous canal channel at the Arnold Canal over-water utility corridor on the east bank of the Central-Oregon Canal is unknown (Appendix A, Figure A2). Although the canal area is limited, the fill material may not meet DEQ Clean Fill criteria and require disposal at a landfill if disturbed.
- The soils and Central-Oregon Canal sediment adjacent to and within the Project Corridor roadways may contain petroleum hydrocarbons and heavy metals as they are sinks for roadway pollutants. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed. If sediment is present in the Canal where Project construction activities are to occur, the sediment may require characterization prior to their disturbance and disposal.
- The soils adjacent to the elevated railroad alignment may contain petroleum hydrocarbons, petroleum constituents, creosote, heavy metals and herbicides as the soils are sinks for railroad bed, track and or operations' pollutants. There is the potential that the soil does not meet DEQ Clean Fill criteria and would require disposal at a landfill if disturbed.
- Treated timber utility poles are present within the Project Corridor and may be disturbed by Project construction.
- Pad-mounted transformers and utility poles with electrical transformers will require coordination with utility providers for proper removal.

APPENDIX D

Historical EDR Database Reports

Reed Market

905 Market Rd

Bend, OR 97702

Inquiry Number: 7746393.8

August 28, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

08/28/24

Site Name:

Reed Market
905 Market Rd
Bend, OR 97702
EDR Inquiry # 7746393.8

Client Name:

Coles & Betts Environmental Consulting
5741 NE Flanders Street
Portland, OR 97213
Contact: Ms. Jill Betts

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2000	1"=500'	Acquisition Date: January 01, 2000	USGS/DOQQ
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1982	1"=500'	Flight Date: July 29, 1982	USDA
1979	1"=500'	Flight Date: August 12, 1979	USDA
1973	1"=500'	Flight Date: June 28, 1973	USGS
1968	1"=500'	Flight Date: May 06, 1968	USDA
1959	1"=500'	Flight Date: June 18, 1959	USGS
1951	1"=500'	Flight Date: July 30, 1951	USDA
1943	1"=500'	Flight Date: August 20, 1943	USDA
1938	1"=500'	Flight Date: June 20, 1938	USDA

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EDR


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= 500'
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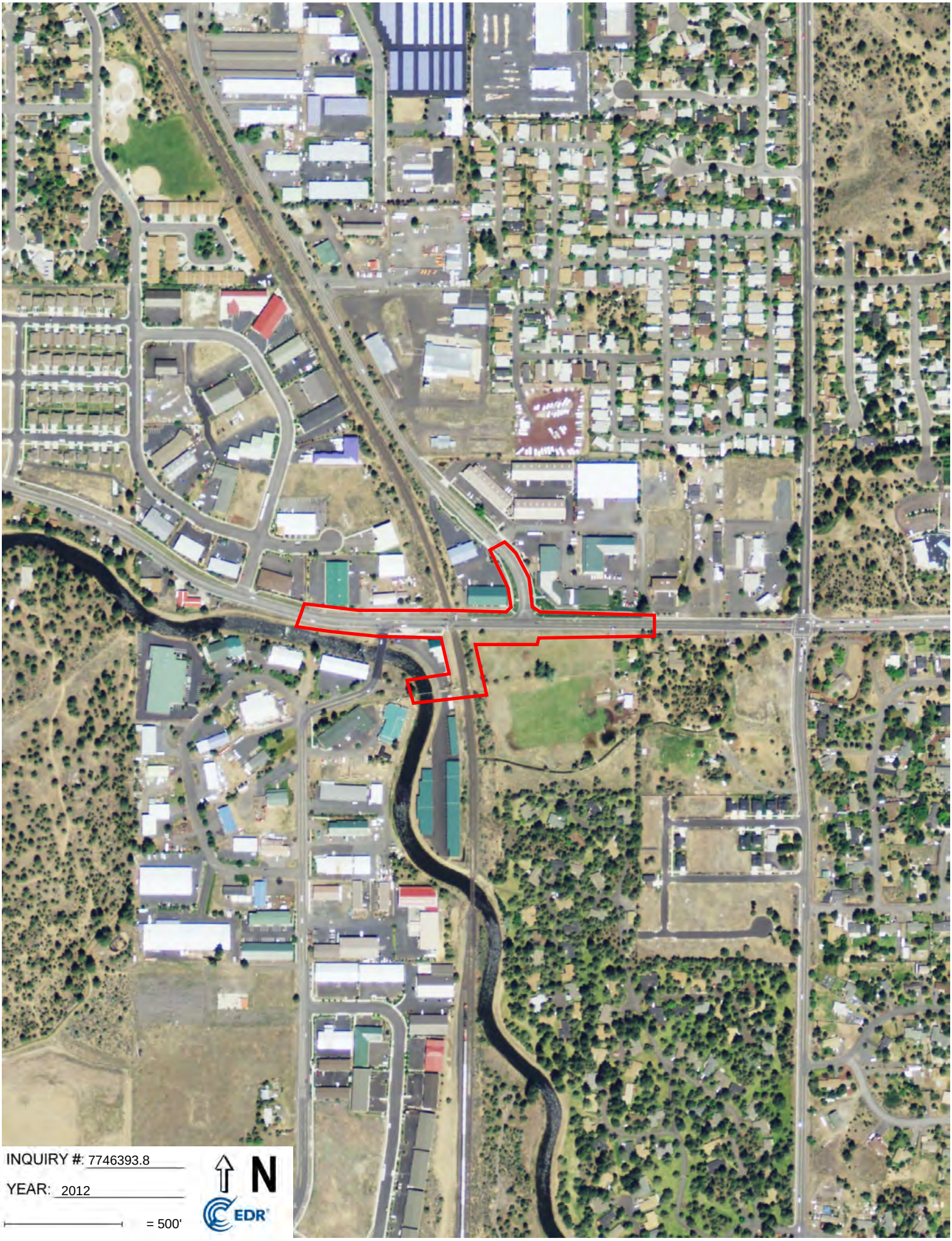
EDR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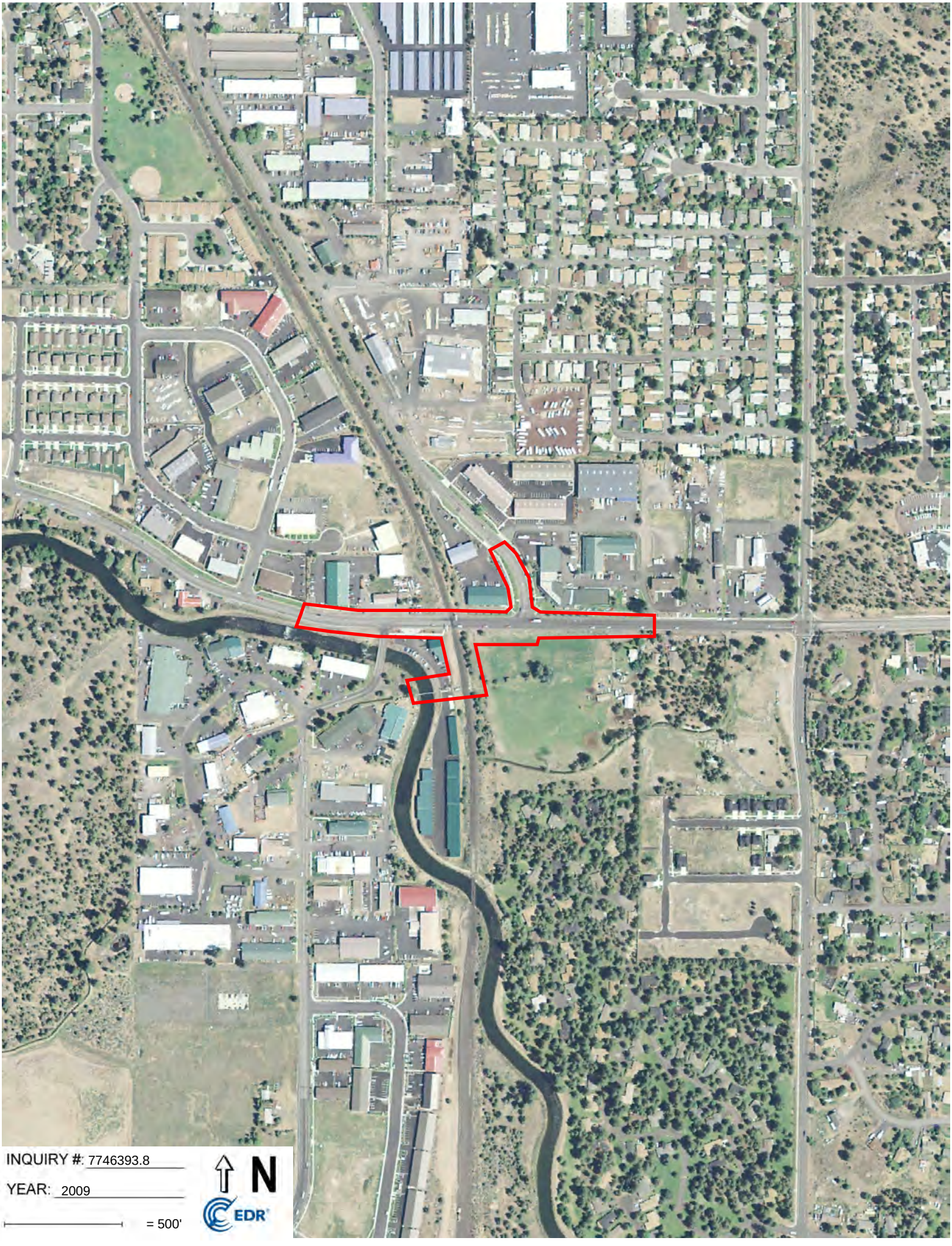
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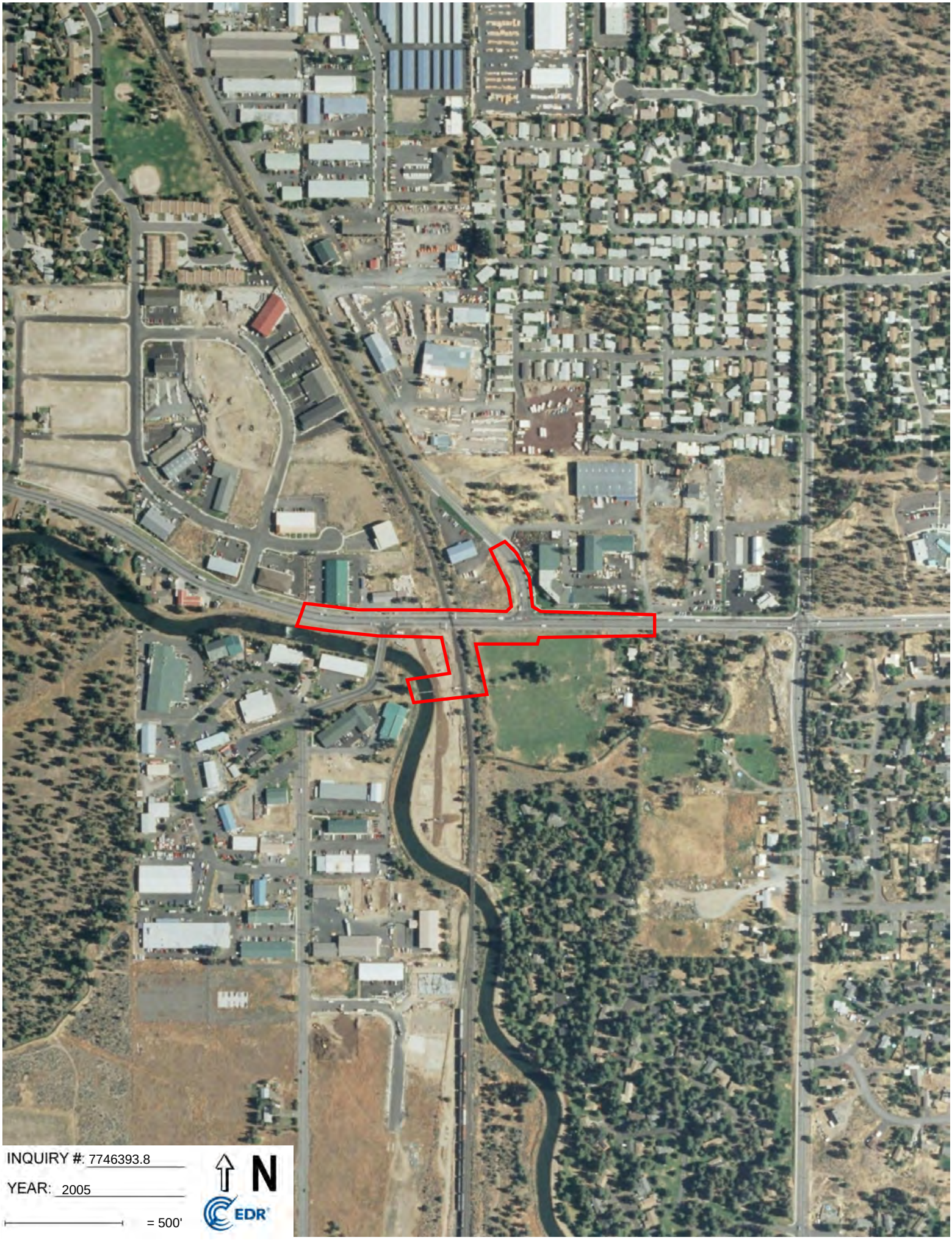
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EDR


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EDR
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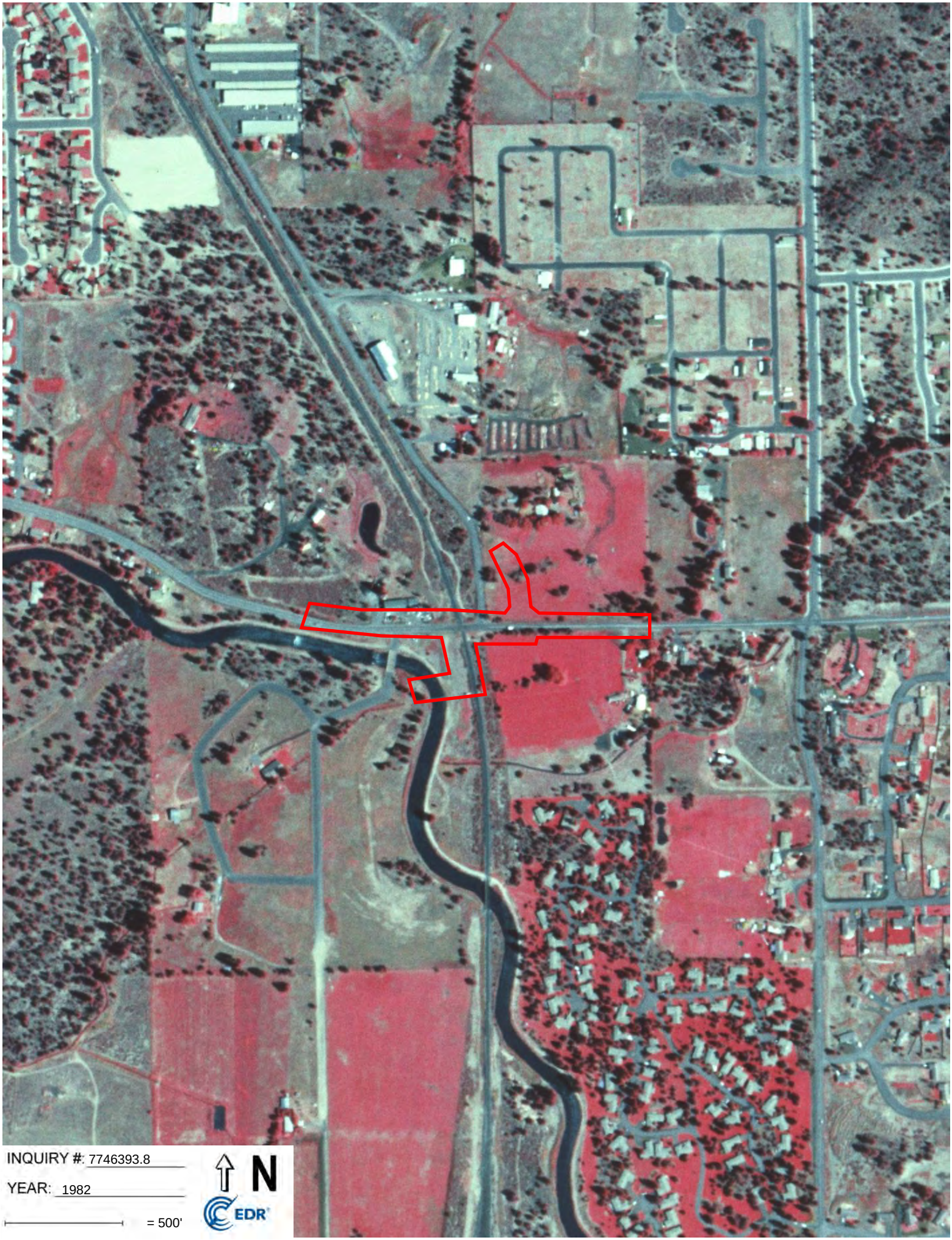
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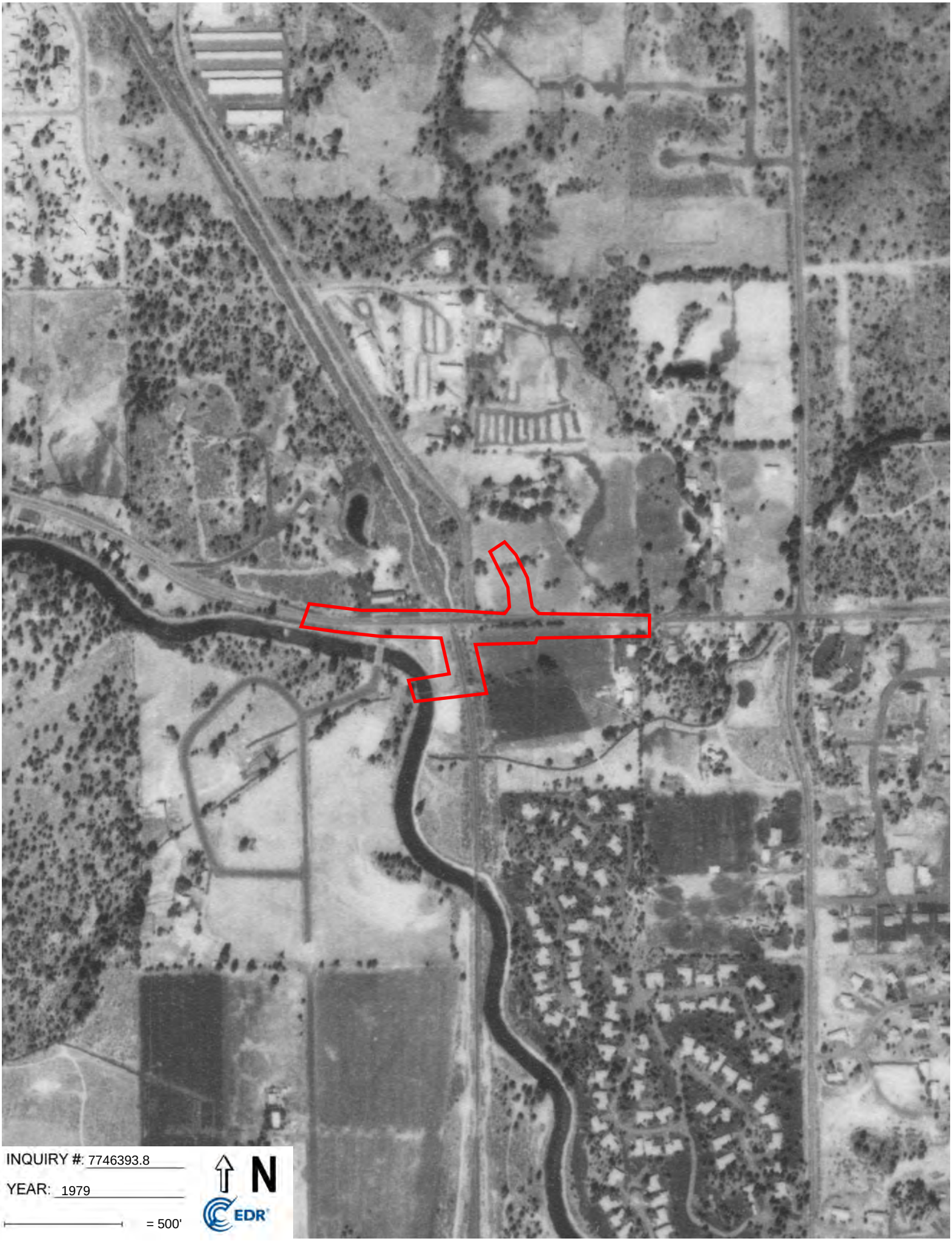
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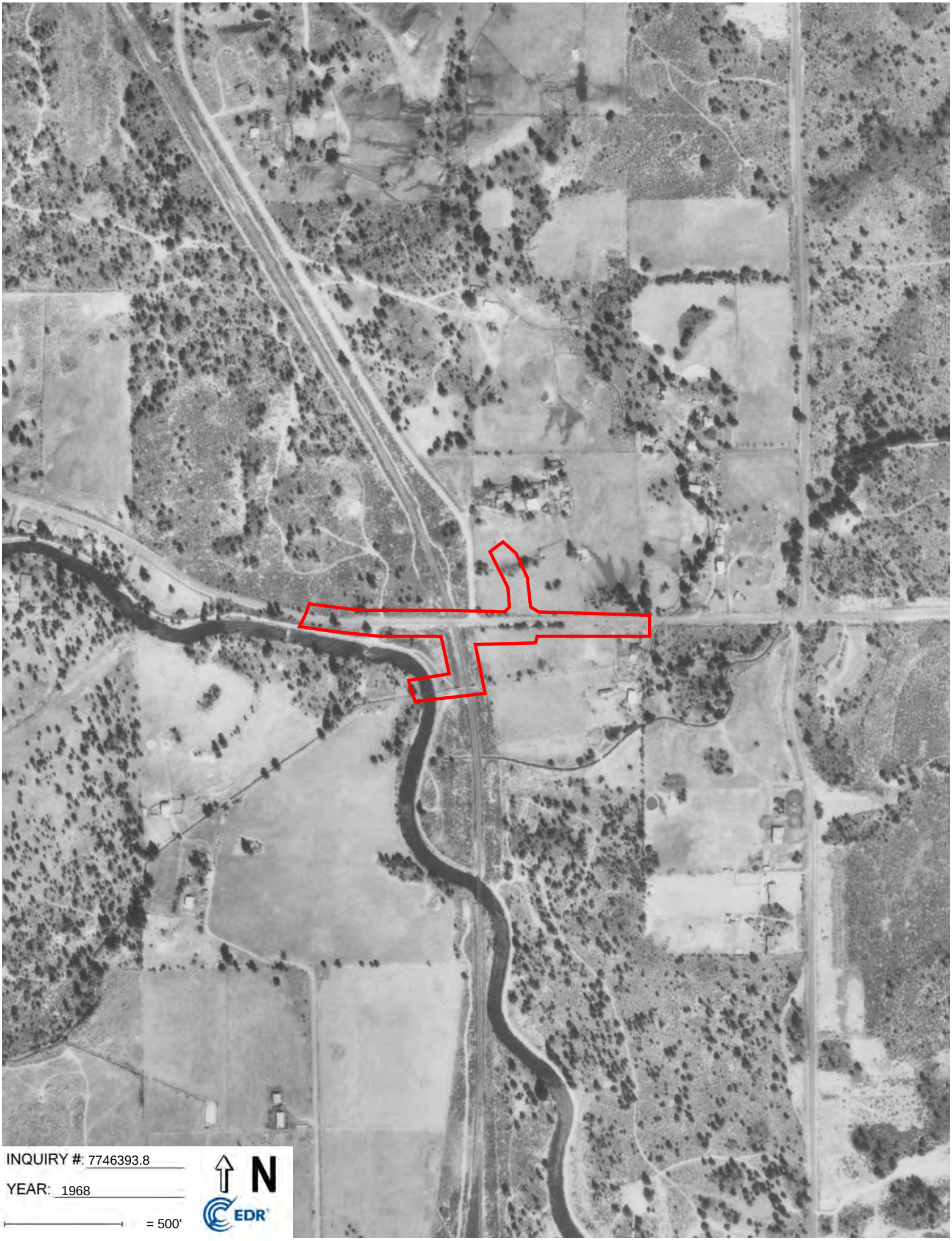
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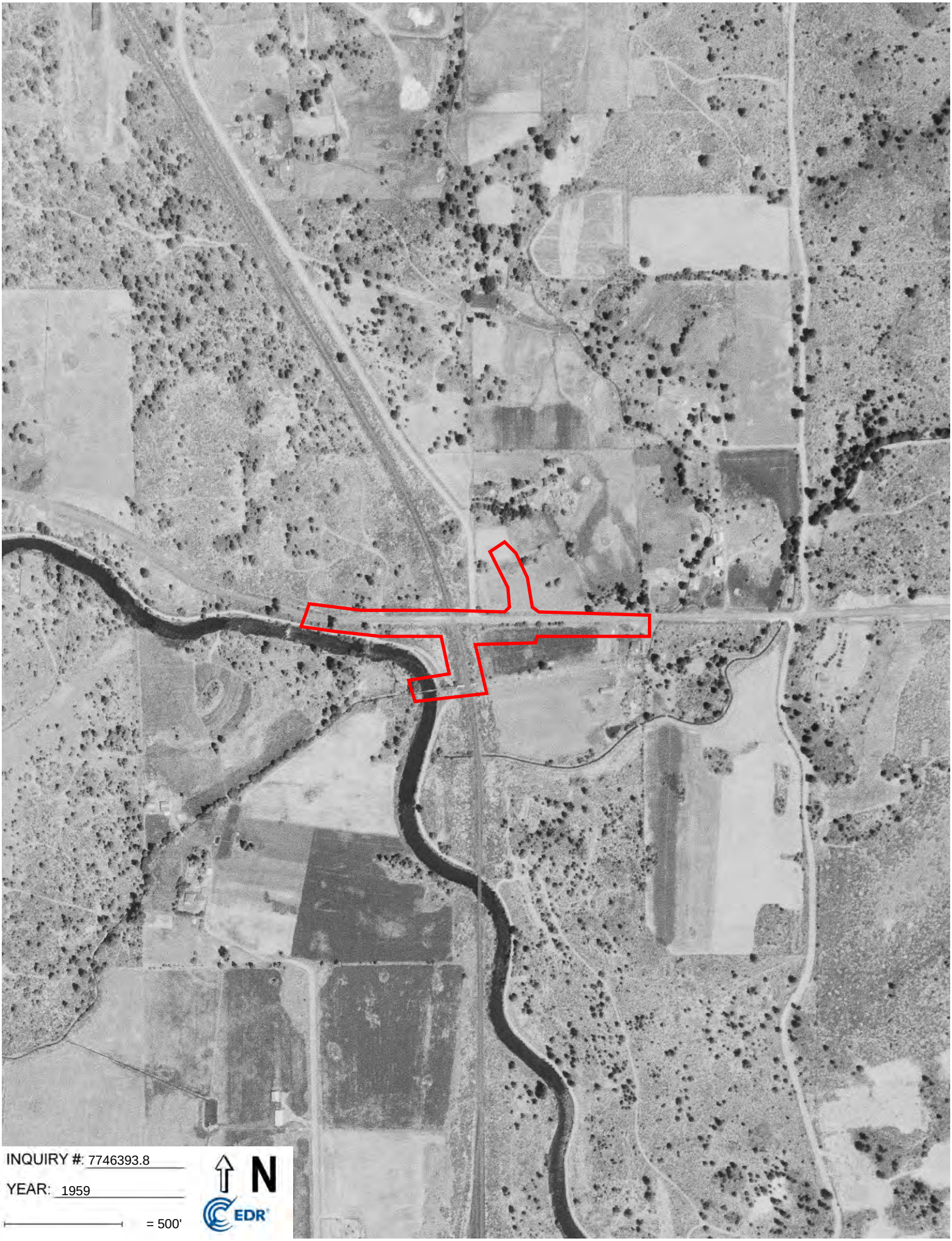
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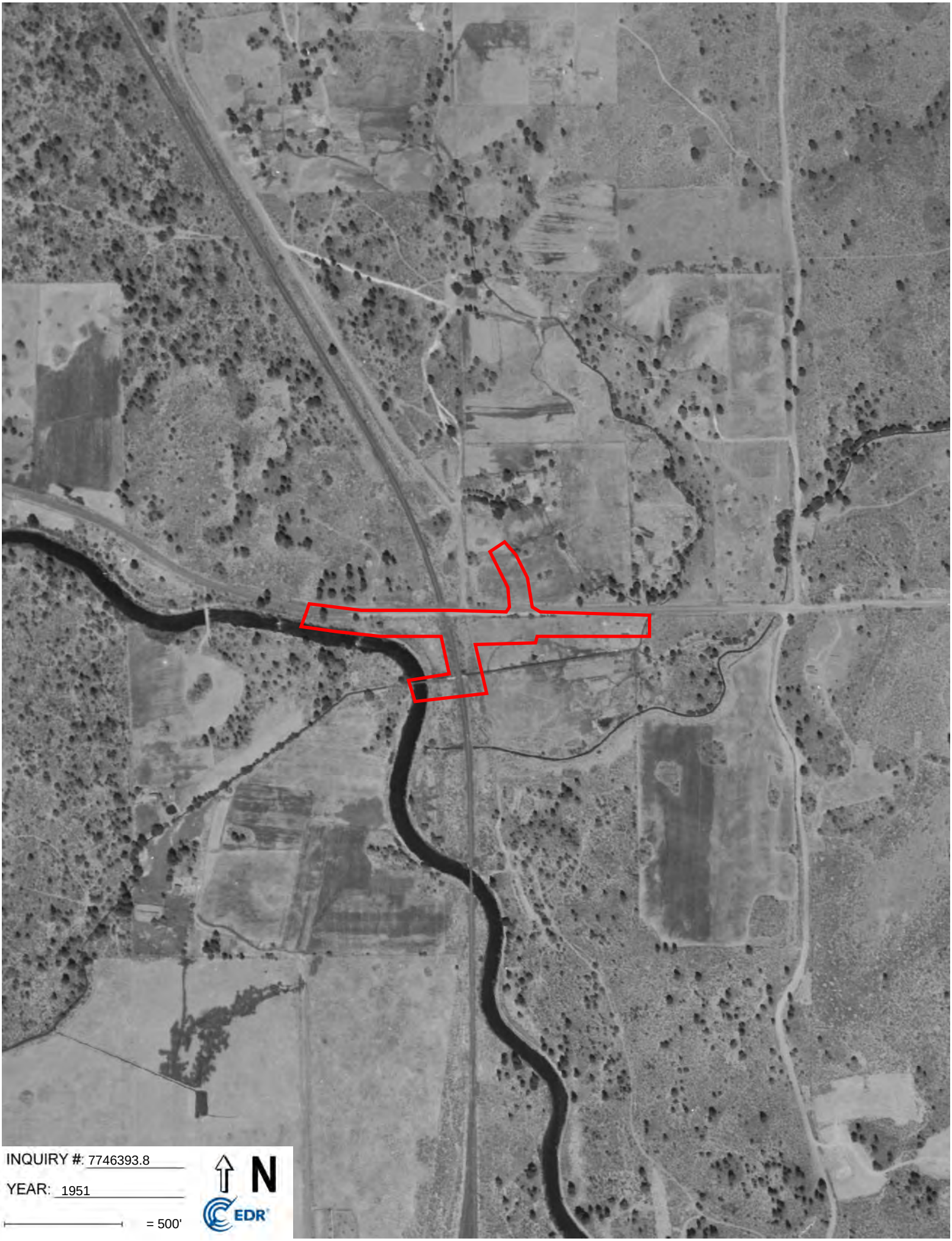
EDR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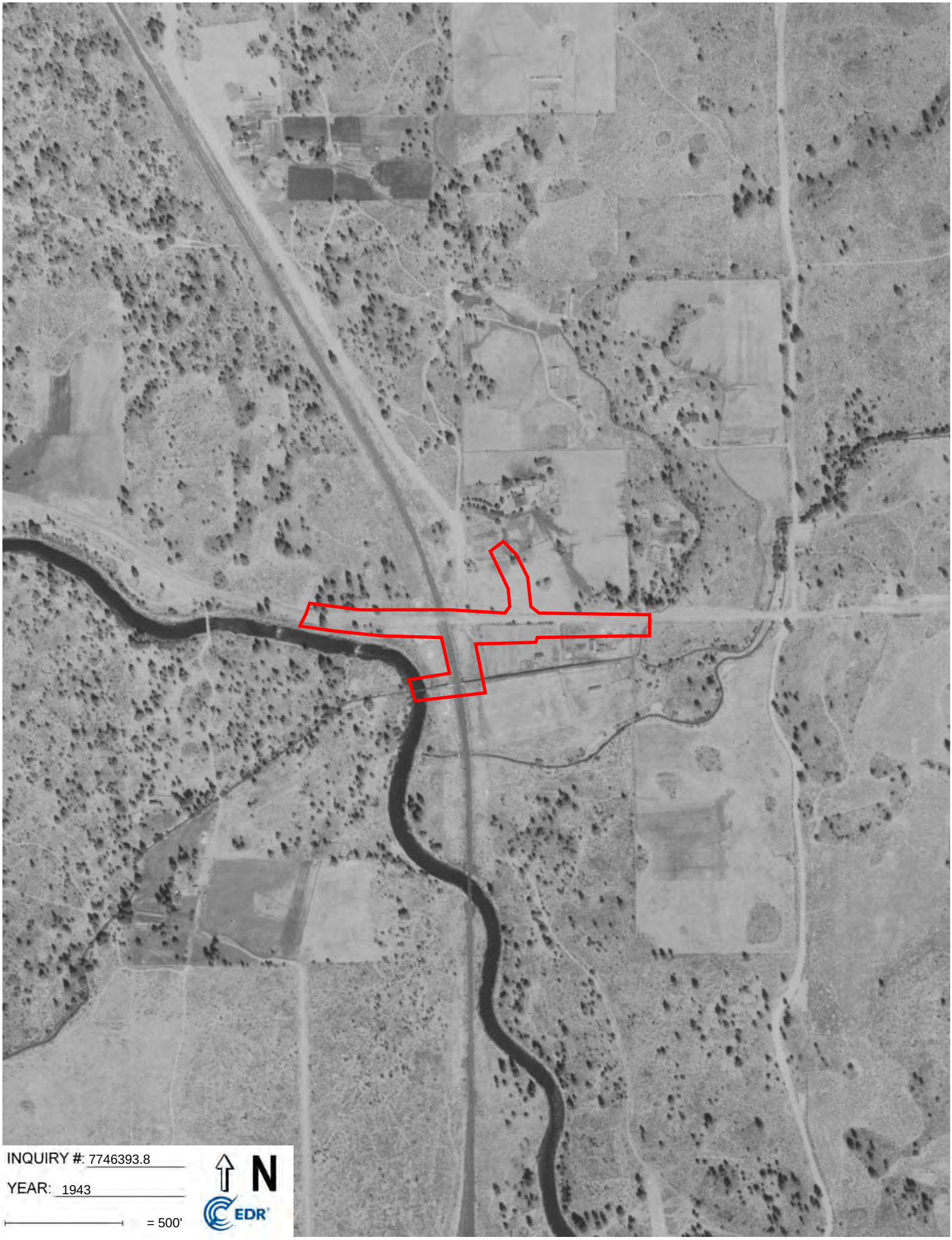
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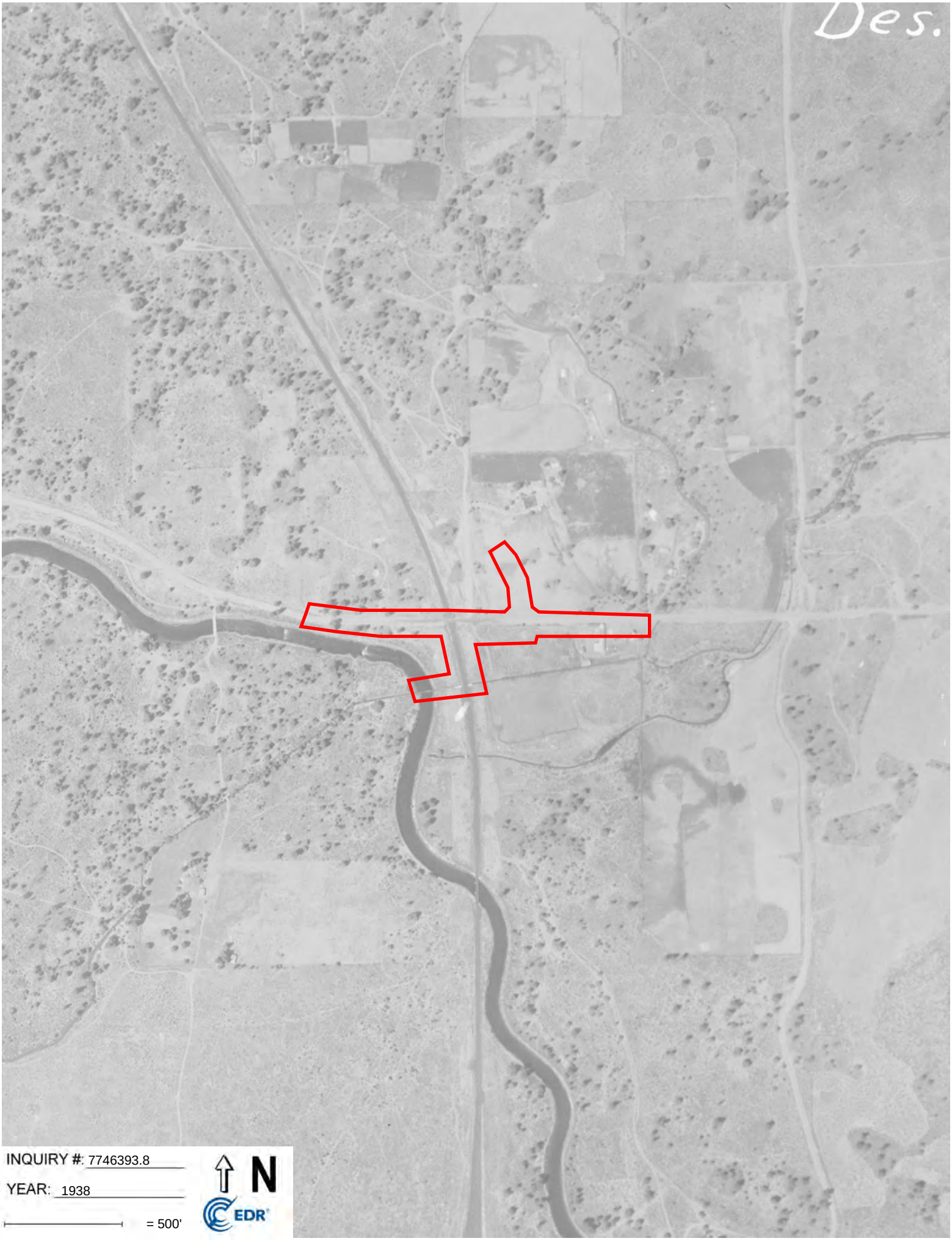
EDR



INQUIRY #: 7746393.8

YEAR: 1938

= 500'

N

EDR

Reed Market

905 Market Rd

Bend, OR 97702

Inquiry Number: 7746393.4

August 27, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

08/27/24

Site Name:

Reed Market
905 Market Rd
Bend, OR 97702
EDR Inquiry # 7746393.4

Client Name:

Coles & Betts Environmental Consulting L
5741 NE Flanders Street
Portland, OR 97213
Contact: Ms. Jill Betts

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Coles & Betts Environmental Consulting LLC were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 493
Project: Reed Market

Coordinates:

Latitude:	44.036991 44° 2' 13" North
Longitude:	-121.288741 -121° 17' 19" West
UTM Zone:	Zone 10 North
UTM X Meters:	637114.12
UTM Y Meters:	4877404.91
Elevation:	3726.20' above sea level

Maps Provided:

2020
2017
2014
1981
1975
1962
1929
1926

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2020 Source Sheets



Bend
2020
7.5-minute, 24000

2017 Source Sheets



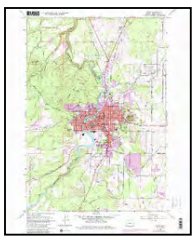
Bend
2017
7.5-minute, 24000

2014 Source Sheets



Bend
2014
7.5-minute, 24000

1981 Source Sheets

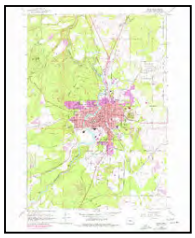


Bend
1981
7.5-minute, 24000
Aerial Photo Revised 1979

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1975 Source Sheets



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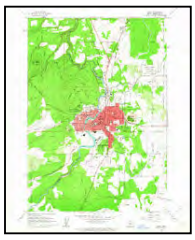
Aerial Photo Revised 1975

1962 Source Sheets



Bend
1962
7.5-minute, 24000
Aerial Photo Revised 1959

1929 Source Sheets



Bend
1929
30-minute, 125000

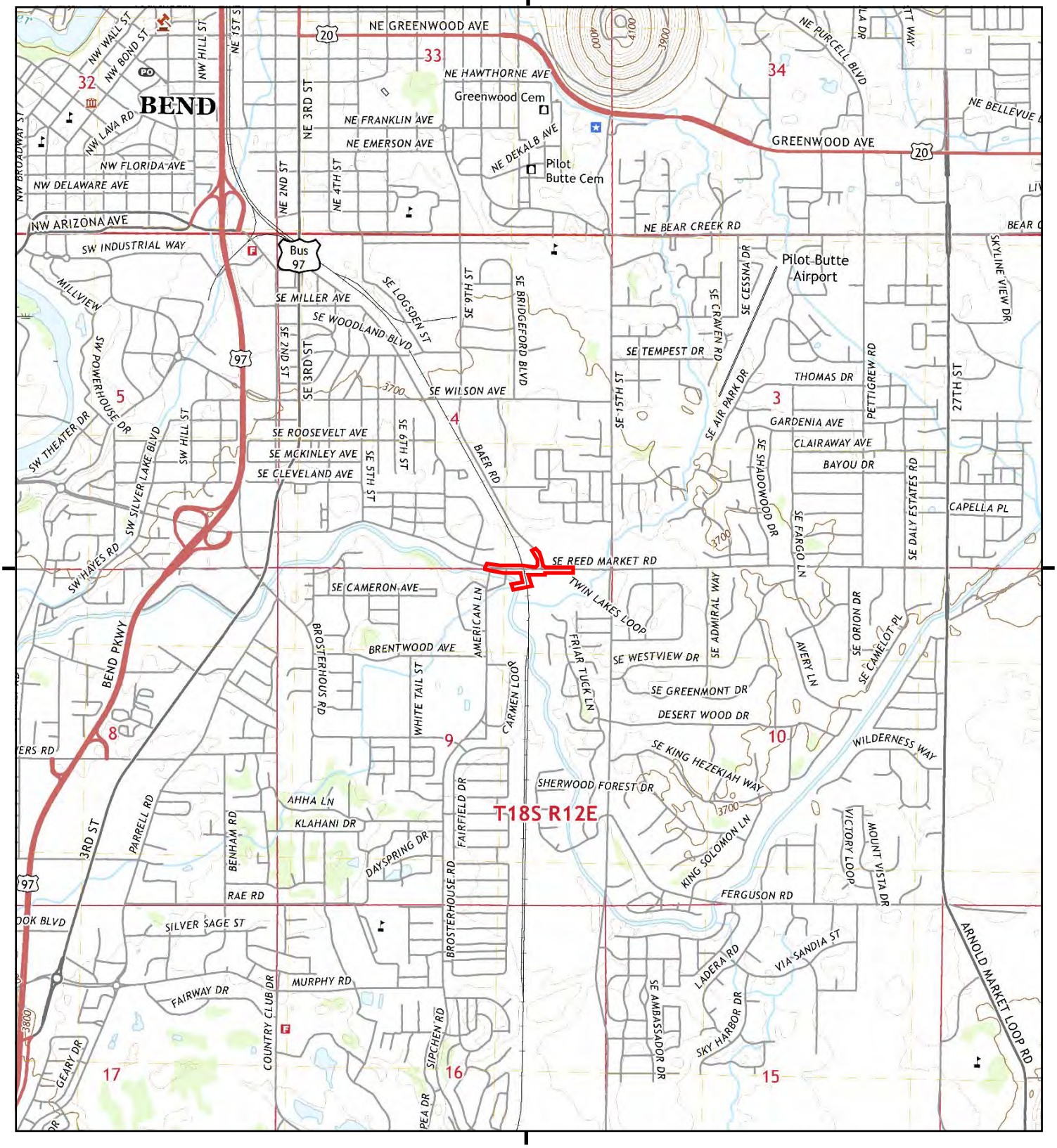
1926 Source Sheets



Bend
1926
30-minute, 125000

Historical Topo Map

2020



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

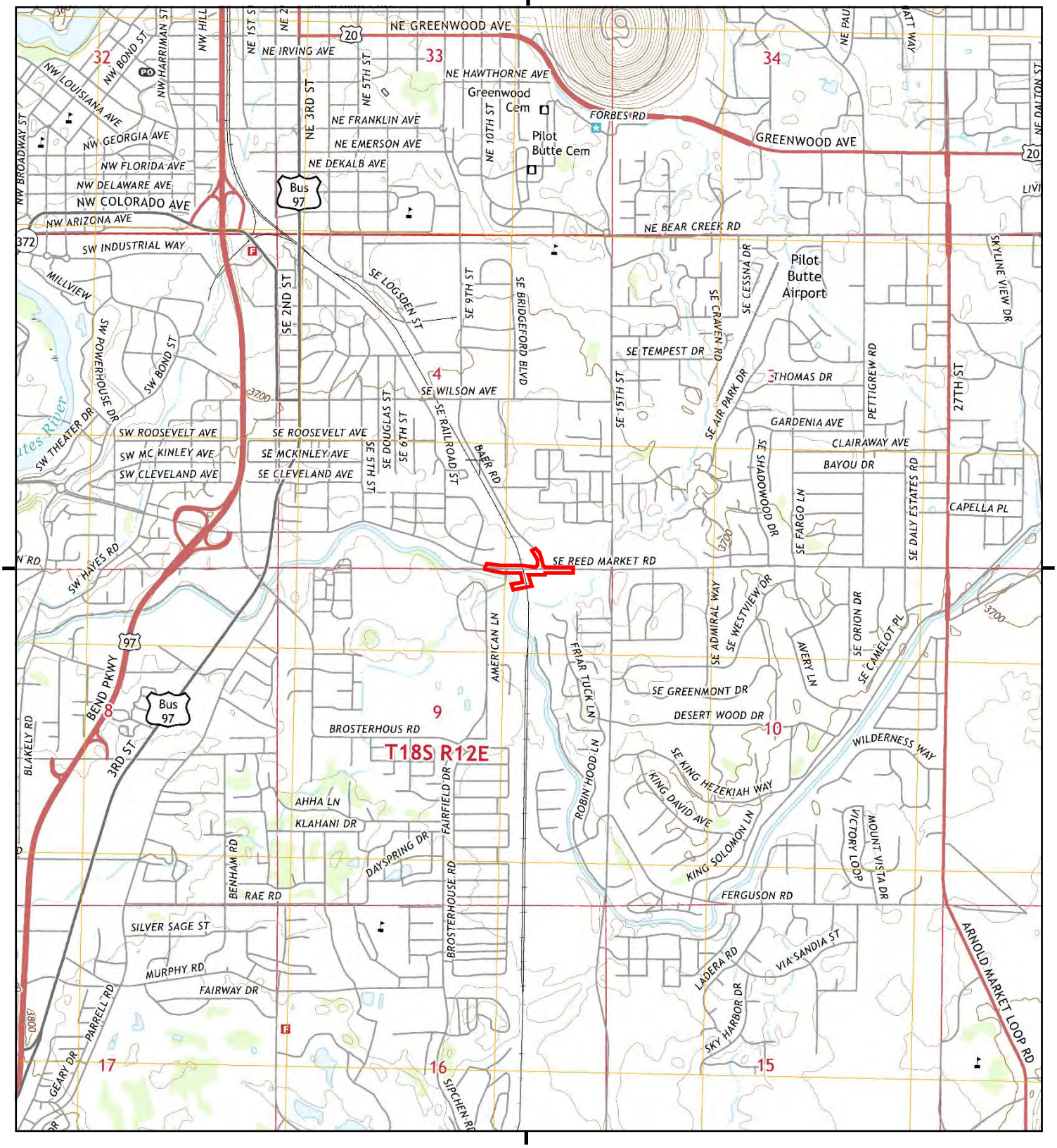
TP, Bend, 2020, 7.5-minute

SITE NAME: Reed Market
ADDRESS: 905 Market Rd
Bend, OR 97702
CLIENT: Coles & Betts Environmental Consulting I

N

Historical Topo Map

2017



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NW N NE
W E
SW S SE

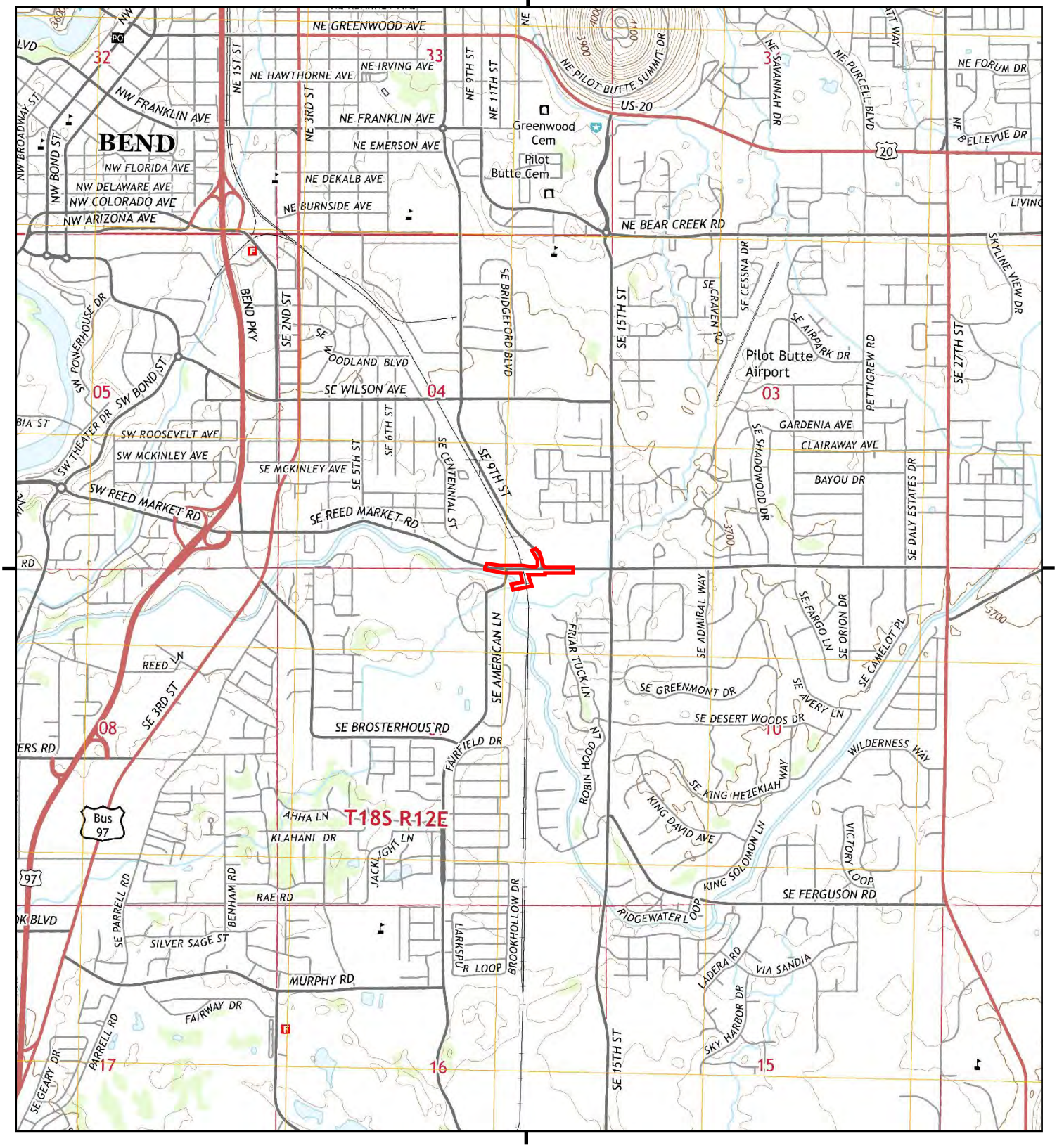
TP, Bend, 2017, 7.5-minute

SITE NAME: Reed Market
ADDRESS: 905 Market Rd
Bend, OR 97702
CLIENT: Coles & Betts Environmental Consulting l

N

Historical Topo Map

2014



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SW S SE

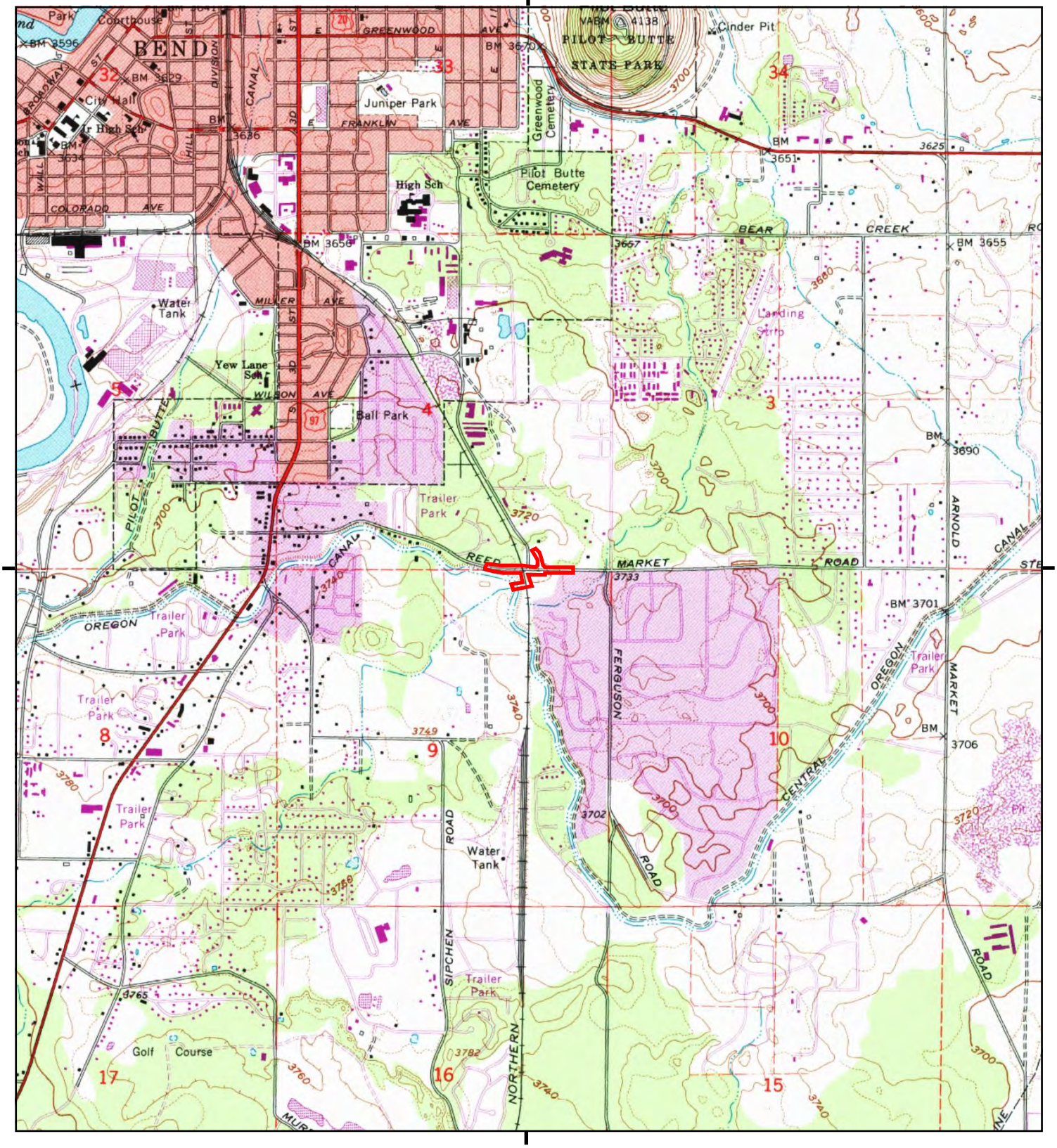
TP, Bend, 2014, 7.5-minute

SITE NAME: Reed Market
ADDRESS: 905 Market Rd
Bend, OR 97702
CLIENT: Coles & Betts Environmental Consulting l

N

Historical Topo Map

1981



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W E
SW S SE

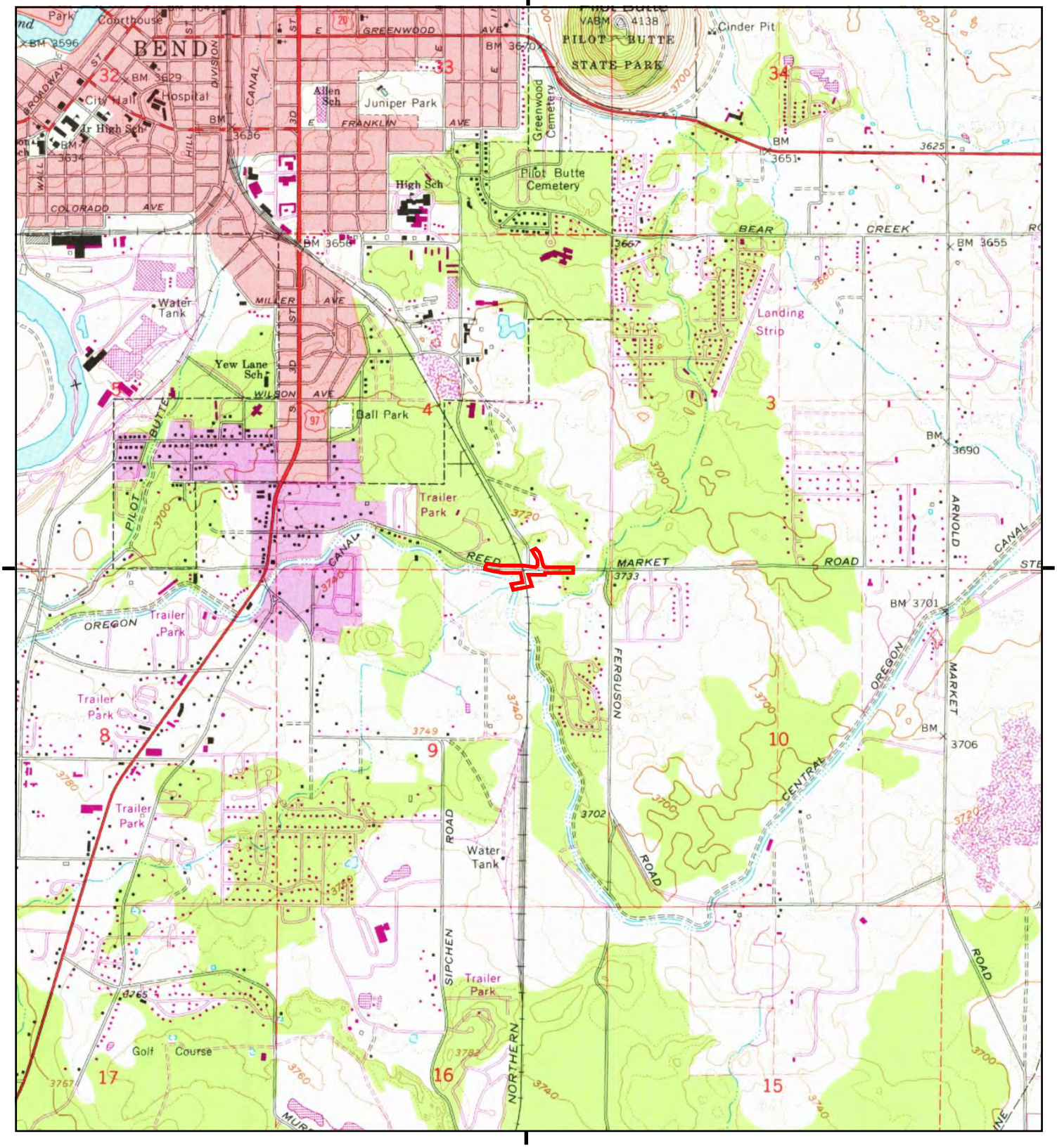
TP, Bend, 1981, 7.5-minute

SITE NAME: Reed Market
ADDRESS: 905 Market Rd
Bend, OR 97702
CLIENT: Coles & Betts Environmental Consulting I

N

Historical Topo Map

1975



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NW N NE
W E
SW S SE

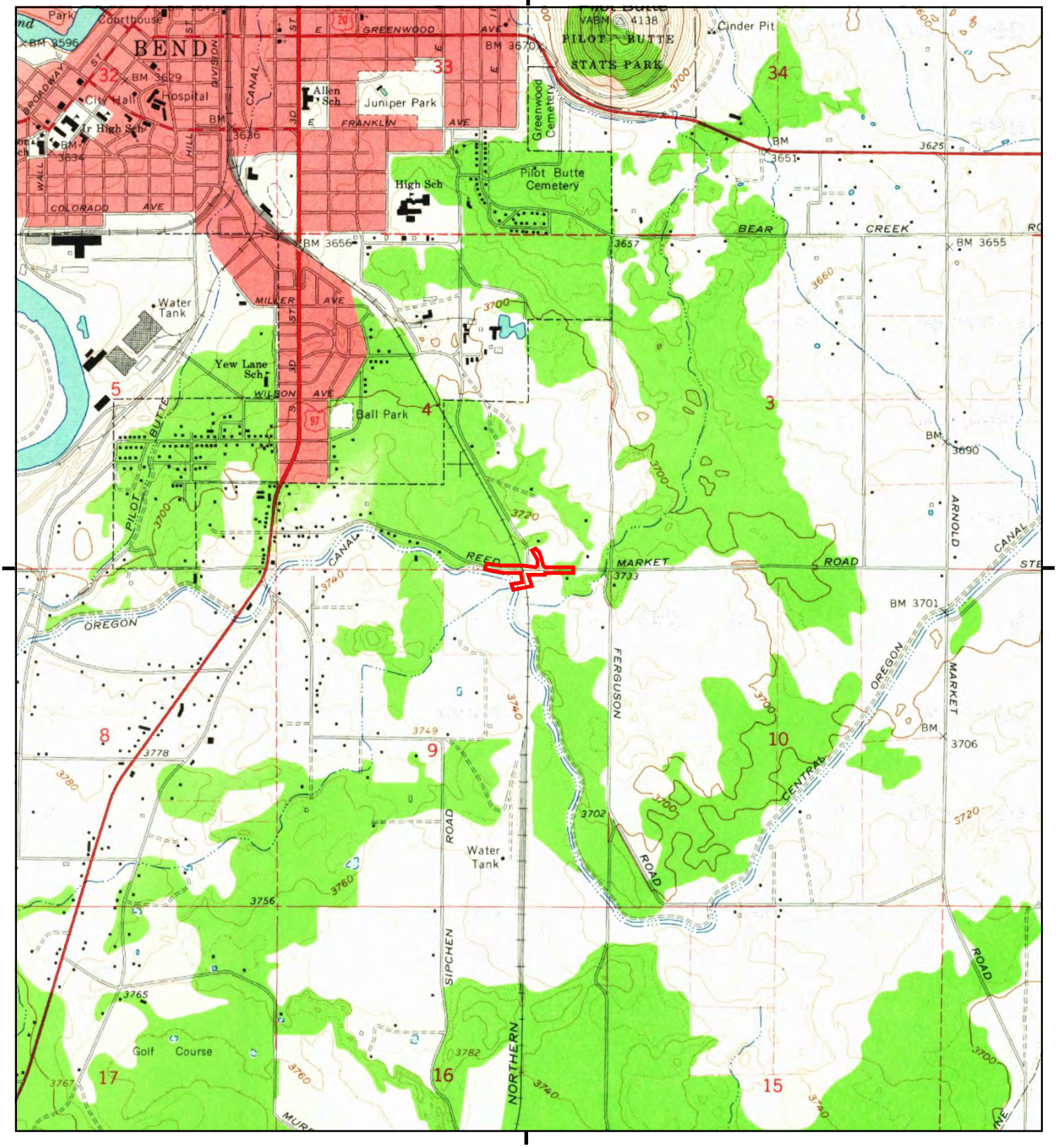
TP, Bend, 1975, 7.5-minute

SITE NAME: Reed Market
ADDRESS: 905 Market Rd
Bend, OR 97702
CLIENT: Coles & Betts Environmental Consulting l

N

Historical Topo Map

1962



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W E
SW S SE

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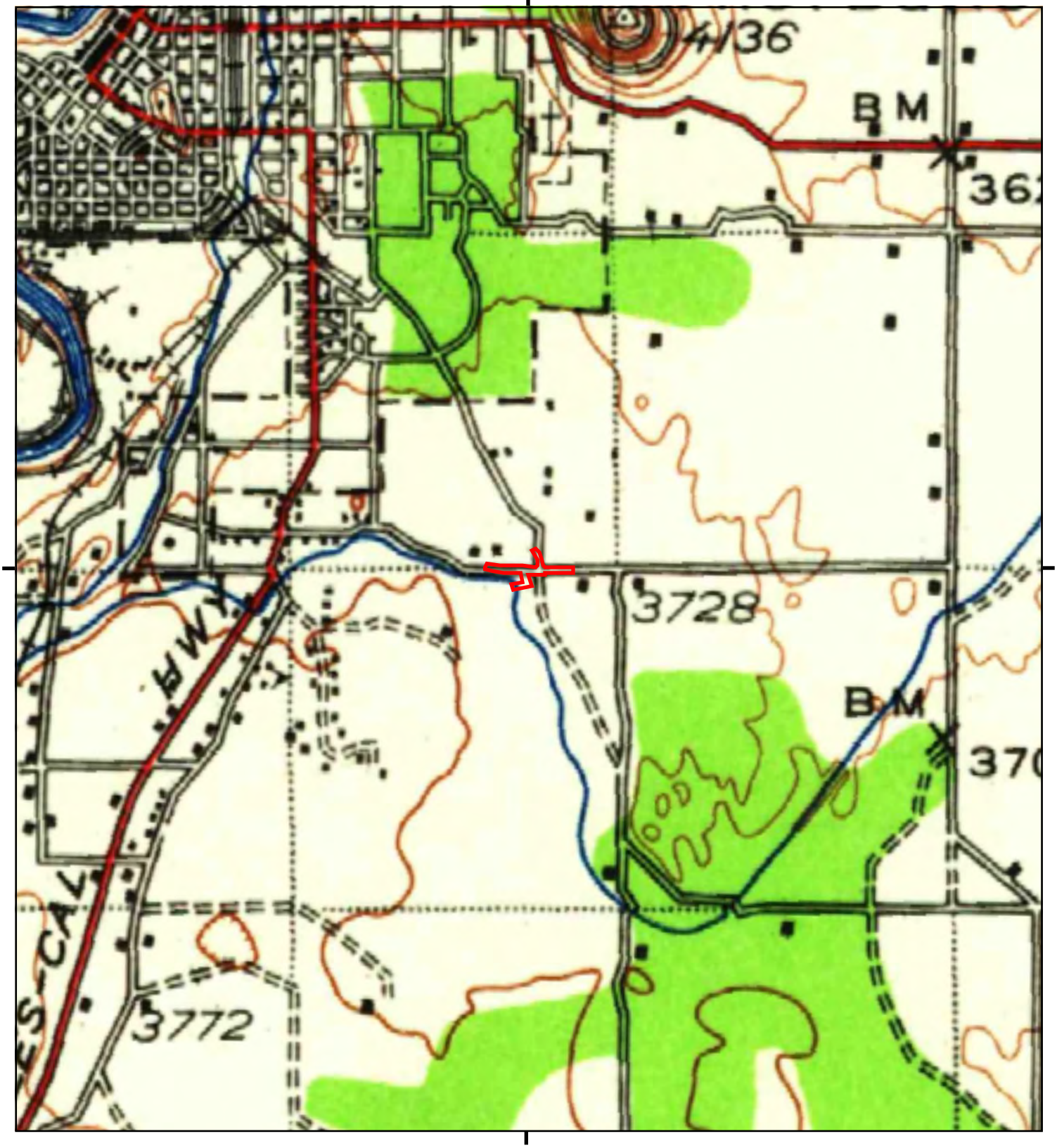
SITE NAME: Reed Market
ADDRESS: 905 Market Rd
Bend, OR 97702
CLIENT: Coles & Betts Environmental Consulting I

N



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SW S SE

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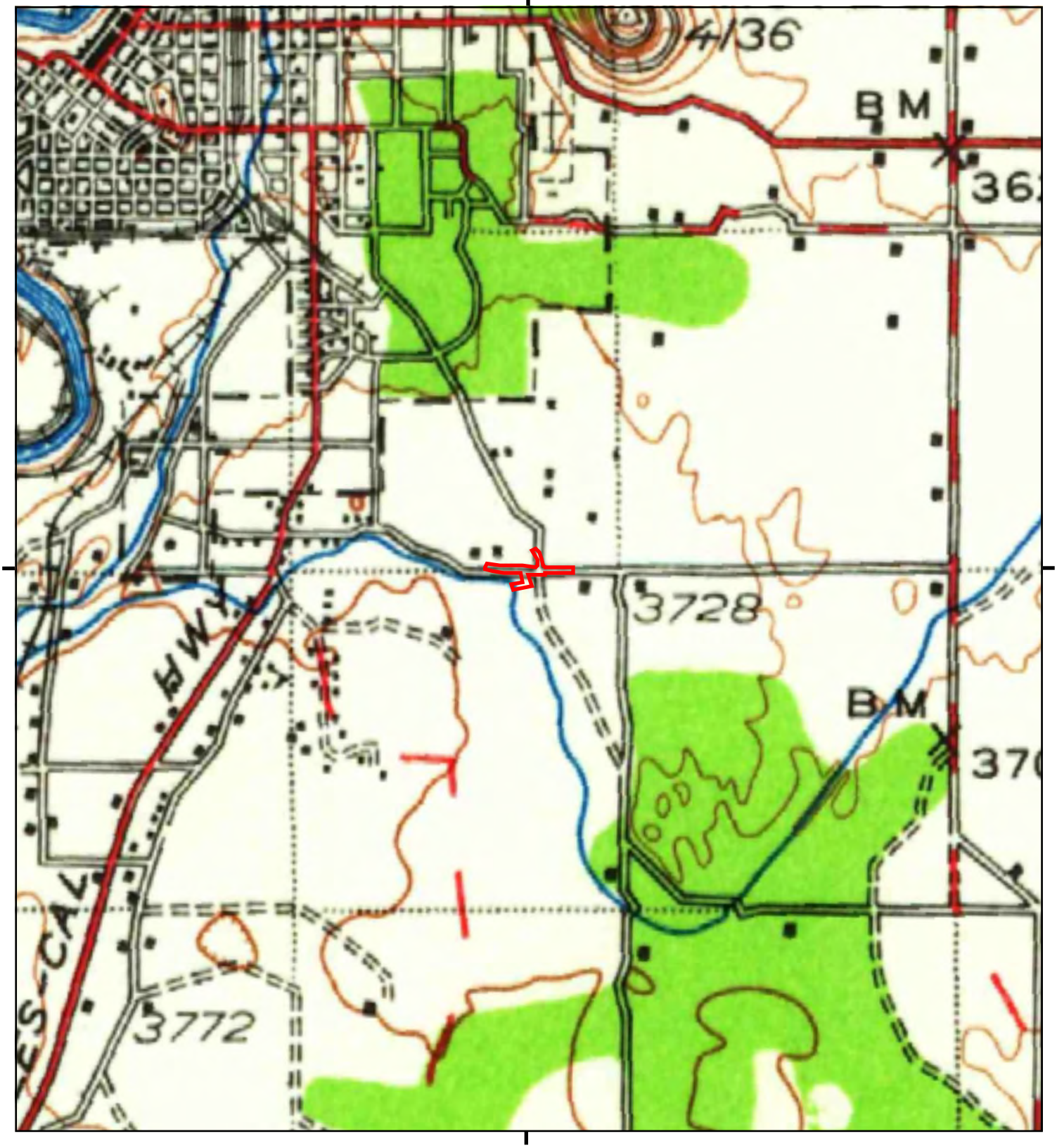
SITE NAME: Reed Market
ADDRESS: 905 Market Rd
Bend, OR 97702
CLIENT: Coles & Betts Environmental Consulting I

N



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NW N NE
W E
SW S SE

TP, Bend, 1926, 30-minute

SITE NAME: Reed Market
ADDRESS: 905 Market Rd
Bend, OR 97702
CLIENT: Coles & Betts Environmental Consulting I

N

Reed Market

905 Market Rd

Bend, OR 97702

Inquiry Number: 7746393.3

August 27, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

08/27/24

Site Name:

Reed Market
905 Market Rd
Bend, OR 97702
EDR Inquiry # 7746393.3

Client Name:

Coles & Betts Environmental Consulting L
5741 NE Flanders Street
Portland, OR 97213
Contact: Ms. Jill Betts

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Certified Sanborn Results:

Certification # 6DBE-41CB-B2DB

PO # 493

Project Reed Market

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 6DBE-41CB-B2DB

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Reed Market
905 Market Rd
Bend, OR 97702

Inquiry Number: 7746393.5
September 03, 2024

The EDR-City Directory Image Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☑	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☑	Cole Information
1992	☑	☑	Cole Information
1989	☑	☑	Polk's City Directory
1983	☑	☐	Polk's City Directory
1978	☐	☐	Polk's City Directory
1973	☐	☐	Polk's City Directory
1968	☐	☐	Polk's City Directory
1963	☐	☐	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

905 Market Rd
Bend, OR 97702

Year	*CD Image*	*Source*	
SE REED MARKET RD			
2020	pg A5	EDR Digital Archive	
2017	pg A9	Cole Information	
2014	pg A13	Cole Information	
2010	pg A17	Cole Information	
2005	pg A20	Cole Information	
2000	pg A23	Cole Information	
1995	pg A26	Cole Information	
1992	pg A29	Cole Information	
1989	pg A31	Polk's City Directory	
1989	pg A32	Polk's City Directory	
1983	pg A33	Polk's City Directory	
1978	-	Polk's City Directory	Target and Adjoining not listed in Source
1973	-	Polk's City Directory	Target and Adjoining not listed in Source
1968	-	Polk's City Directory	Target and Adjoining not listed in Source
1963	-	Polk's City Directory	Target and Adjoining not listed in Source

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
AMERICAN LN			
2020	pg. A1	EDR Digital Archive	
2017	pg. A6	Cole Information	
2014	pg. A10	Cole Information	
2010	pg. A14	Cole Information	
2005	pg. A18	Cole Information	
2000	pg. A21	Cole Information	
1995	pg. A24	Cole Information	
1992	pg. A27	Cole Information	
1989	-	Polk's City Directory	Target and Adjoining not listed in Source
1983	-	Polk's City Directory	Target and Adjoining not listed in Source
1978	-	Polk's City Directory	Target and Adjoining not listed in Source
1973	-	Polk's City Directory	Target and Adjoining not listed in Source
1968	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source
AMERICAN LOOP			
2020	pg. A2	EDR Digital Archive	
2017	pg. A7	Cole Information	
2014	pg. A11	Cole Information	
2010	pg. A15	Cole Information	
2005	pg. A19	Cole Information	
2000	pg. A22	Cole Information	
1995	pg. A25	Cole Information	
1992	pg. A28	Cole Information	
1989	pg. A30	Polk's City Directory	
1983	-	Polk's City Directory	Street not listed in Source
1978	-	Polk's City Directory	Street not listed in Source
1973	-	Polk's City Directory	Street not listed in Source
1968	-	Polk's City Directory	Street not listed in Source

FINDINGS

Year	*CD Image*	*Source*	
1963	-	Polk's City Directory	Street not listed in Source

SE CENTENNIAL CT

2020	pg. A4	EDR Digital Archive	
2017	pg. A8	Cole Information	
2014	pg. A12	Cole Information	
2010	pg. A16	Cole Information	
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source
1989	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1978	-	Polk's City Directory	Street not listed in Source
1973	-	Polk's City Directory	Street not listed in Source
1968	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source

SE DEPOT LOOP

2020	-	EDR Digital Archive	Street not listed in Source
2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source
1989	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1978	-	Polk's City Directory	Street not listed in Source
1973	-	Polk's City Directory	Street not listed in Source
1968	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source

FINDINGS

Year	CD Image	Source	
SE IRON HORSE LN			
2020	-	EDR Digital Archive	Street not listed in Source
2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source
1989	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1978	-	Polk's City Directory	Street not listed in Source
1973	-	Polk's City Directory	Street not listed in Source
1968	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source
SE QUILL PL			
2020	-	EDR Digital Archive	Street not listed in Source
2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source
1989	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1978	-	Polk's City Directory	Street not listed in Source
1973	-	Polk's City Directory	Street not listed in Source
1968	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

AMERICAN LN 2020

61425 CHARLES ANDERSON
61430 TWO GUYS PAINTING
61438 BROADSIDE RECLAIMED HARDWOOD
61450 ACCENT AMENITIES
61505 BEND PLASTIC FAB & MATERIAL
SUPERIOR DISPLAY
61510 COMMANDER OFF ROAD EQUIPMENT
EARTHCRUISER
61511 CROSBY & CO
DIVERSIFIED HEATING & COOLING
DOUG STRAW
LJA LLC
RIVER BEND HEATING & COOLING
61520 HARDWOOD INDUSTRIES OF BEND
61526 ANDERSON & ANDERSON
DADS OF BEND
61535 NEWMAN BROTHERS PAINTING LLC
STEVEN NEWMAN
61536 BELFOR PROPERTY RESTORATION
61540 AROMA DRIVE THRU
BEND HEATING & SHEET METAL INC
HEARTLAND PAINTING LIC
LIFETIME WINDOWS & DOORS
SHELLBACK INTERIORS
STONE EXPRESSIONS LTD
ZACHARY DALE
61550 AUDIOWERKS
CASEY BISCHOFF
LIFE SAFER IGNITION INTERLOCK
61560 GARY NORMAN
GERMAN TRANSAXLE OF AMERICA
NICK NORMAN
61561 CATHERINE REID
JERRY REID
JERRYS OUTDOOR POWER OUTERWEAR
61562 VISION BLIND CLEANING
61568 ASHLEY CHASTAIN
BLAKE CHASTAIN
FULL CIRCLE SEWING-PRODUCTION
JERK KINGS
STEPHEN JACKSON
TINT WORKS
WILD ZOO FURNITURE
61575 EXQUISITE HARDWOOD FLOORS INC
61580 BELLEVUE HEALTHCARE II INC
BEND ON-SITE SCREENING
DISPLAY IT BIG
LIFE SAFER IGNITION INTERLOCK

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

AMERICAN LOOP 2020

61515	AUTO EXPERTISE LLC
61522	INTER MOUNTAIN TRUCK-AUTO RPR
	ORIGINAL BEND CO
	ORIGINAL BEND TRANSMISSION CO
61523	JESS WILCOX
	KATIE WILCOX
	SCOTT WILCOX
	SERVICEMASTER CO
	WILCOX CONSTRUCTION LLC
61527	ALI BIJANFAR
	BRENT WRIGHT
	BRIAN LYNOTT
	BRIAN'S CABINETS
	HAKALA MANUFACTURING INC
	HOLLY MERCER
	JANEEN KRASNOW
	JOEL MORRIS
	SARA CLELAND
	THOMAS RUPP
	TODD HAKALA
61532	AMERICAN TOWING
61533	541 BUILDING & RESTORATION
	ALAN KELM
	ALEX HODGE CONSTRUCTION INC
	BEND CARPET-AIR DUCT CLEANING
	BILL PETERSON
	BRIAN ARELLANO
	CHRISS BINOEDER
	EDWARD PARKS
	ERIC PARKES
	GUADALUPE BINOEDER
	J E SHERRY CO INC
	JACOB ANDERSON
	JACOB ELSWICK
	JERRY GAFFNEY
	JOSE MORALES
	KODY PITNER
	LOGAN JACOBSON
	MARK SCHIEWE
	POWERS OF AUTOMATION INC
	ROTO-ROOTER PLBG-WATER CLEANUP
	STEVE HILLS
	STEVE POWERS
61542	PINE MOUNTAIN ACOUSTICAL INC
	RANDALL COLUMBELL
61543	COMPLETE MILLWRIGHT INC
	JANA ROSE
	RAY ROSE
	RAY ROSE JR
	ROSE MACHINERY INC

AMERICAN LOOP 2020 (Cont'd)

61543	WILLIAM BARNETT
61553	HEMPEASE LLC
	ROY SWAN
61562	BETTY DEL RE
	JESS MEDDOCK
	MEI PRODUCTIONS
	MIKE MC MURRAY
	PINNACLE MEDIA INC
	TONYA MCMURRAY
61573	AMANDA KYLLONEN
	ANGELA CHRISTENSEN
	AUSTIN JONES
	BEN CHRISTOFFELS
	BRUCE JUNIOR
	BRUCE WEBER
	CHRISTI GREEN
	CORTNEY KING
	CRAIG ECK
	ERIKA MOHR
	JC TRAYSER
	JEREMY EGGERT
	KILIAN DOWNING
	LORETTA MOORHEAD
	MATT WALBERG
	MIKE FISCHER
	RESE STEC
	RYAN BOUSLAUGH
	SEAN MORRISSEY
	STERLING PURVIS
	SUZ CECILIANI
	TOM HENEKE
	TWO OLD HIPPIES LLC
	VICKI WILSON
61579	CARLA YOUNG
	NEAL YOUNG
	NW WHEEL REPAIR
	WOODWORKS BY MONDAY
61585	AUTO BODY CONCEPTS
	JASON REID
	KATIE MORRISON

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

SE CENTENNIAL CT 2020

1141	ATM
	MIKE'S AUTO PARTS CONNECTION
	REED PUB CO
1151	ADAM BRIGHT TREE SVC
	ANNA FIEDLER
	GEAR WORKS
	J & R CUSTOM CANOPY & REPAIR
	MARGARET ARDITO
	SKYLINER PRINT & DESIGN LLC
	THOMAS FIEDLER
1182	BEND ROCK GYM
	ROSS MORRISON
	SIGONA QUINCEY M

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

SE REED MARKET RD 2020

905	DARRELL TAPPERT
	SEVERSON PLUMBING & MECHANICAL
1110	LEGACY MOTORSPORTZ
	NORTHWEST STAPLE SUPL BEND INC
	SALLY MULLINS
1310	BACK IN ACTION! FITNS EQPT RPR
	BEND PARK & SELL
	JAMES CROUCH
	JESSICA CROUCH
	RODNEY JAMES
	SNAP FITNESS
1320	BEND RUBBER STAMP & PRINTING
	BOARDWORKS SUP
1330	CHASE CONSTRUCTION & TRUCKING
1350	AAKEN CORP
	ALLSTATE INSURANCE
	HOPI JENKINS
	INDIAN SUMMER
	OREGON TAI CHI WUSHU
1370	J K D CONSTRUCTION
1400	USED CARS OF BEND OREGON
1450	ATM
	EXPRESSWAY STORE

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LN 2017

61430	DAVE AUSTIN TILE
	SALMAGUNDI OF BEND
61450	ACCENT AMENITIES
	HELLBUSCH, DAVE
61505	SUPERIOR DISPLAY
61511	CROSBY & COMPANY
	IJA LLC
	LJA LLC
	NASHELLE JEWELRY
61520	BEND ONSITE SCREENING
	HARDWOOD INDUSTRIES OF BEND
61526	ADAM BRIGHT TREE SERVICE
	AUTO CLINIC OF BEND
61530	GREENS AUTOMOTIVE SERVICE
61533	BEND CARPET & AIR DUCT CLEANING
61535	NEWMAN BROTHERS
61540	AROMA DRIVE THRU
	BEND HEATING & SHEET METAL
	LIFETIME WINDOWS & DOORS INC
	WOW BOARDS
61550	CASCADE SWISS PRODUCTS INC
	JACKS UPHOLSTERY
	PETERSON, JAMES A
61560	BARNWOOD INCORPORATED
61561	JERRYS OUTDOOR POWER OUTERWEAR
61568	TYPE ONE INCIDENT
	WILD ZOO DESIGN
	WILD ZOO FURNITURE
61575	EXQUISITE HARDWOOD FLOORS INC
61580	AUDIOWERKS
	BEND ONSITE SCREENING
	DISPLAY IT BIG

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LOOP 2017

61515 BEND TRANSMISSION COMPANY LLC
CELEBRATE THE SEASON
61522 INTERMOUNTAIN TRUCK REPAIR
WHOLESALE AUTO
61523 SERVICEMASTER CLEAN
61527 BRIANS CABINETS
EVERGREEN CLOSETS
61532 AMERICAN HEART ASSOCIATION
AMERICAN TOWING
61533 ALEX HODGE CONSTRUCTION INC
POWERS AUTOMATION INC
61542 PINE MOUNTAIN ACOUSTICAL INC
61553 PERMA TREAT PROBEND
61562 MEI COMMUNICATIONS
PINNACLE MEDIA INC
61563 ENTENMANNS OROWEAT FOODS COMPANY
61579 ALL PHASE ELECTRIC SERVICE INC
QUALITY INTERIOR WORKS LLC
61585 AUTO BODY CONCEPTS

Target Street	Cross Street	Source
-	✓	Cole Information

SE CENTENNIAL CT 2017

1134	BOUNCING OFF THE WALL
1141	MIKES AUTO PARTS CONNECTION INC
	REED PUB COMPANY
1151	ARC
	FORD GRAPHICS
	J & R CANOPY
	SAGEBRUSH PRINTING
1182	BEND ROCK GYM

Target Street	Cross Street	Source
✓	-	Cole Information

SE REED MARKET RD 2017

905	CRAFTSMAN CARPET WAREHOUSE
1110	GAS SAVING TECHNOLOGIES
	LEGACY MOTORSPORTZ INC
	NORTHWEST STAPLE SUPPLY BEND INC
1310	BEND PARK & SELL
	HERITAGE BRAND
1320	CENTRAL CASCADES ARCHERY
	COMPETITIVE EDGE ARCHERY
1350	INDIAN SUMMER
	OREGON TAI CHI WUSHU
1370	HD FOWLER COMPANY
1450	EXPRESSWAY

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LN 2014

61430 RICE CHARLIE & LIBBY
SALMAGUNDI OF BEND
TWO GUYS PAINTING
TWO GUYS PAINTING INC
61450 ACCENT AMENITIES
HELLBUSCH, DAVE
61505 BEND PLASTIC SUPPLY
EGO ORIGINALS
SUPERIOR DISPLAY
61510 CART TEK
61511 BRUSH OFF 61511 AMERICAN LN BEND
CROSBY & COMPANY
NASHELLE JEWELRY
STANFILL, STEVE
61520 HARDWOOD INDUSTRIES OF BEND
61526 ADAM BRIGHT TREE SERVICE
ANDERSON DAVID & JILL
BEND FLOOR COVERING SOLUTIONS LLC
61530 GREENS AUTOMOTIVE SERVICE
61535 AWNINGS UNLIMITED
NEWMAN BROTHERS
61540 AROMA DRIVE THRU
BEND HEATING & SHEET METAL
CENTRAL OREGON SYMPHONY
LAVA RIDGE PROPERTY MANAGEMENT
61550 JACKS UPHOLSTERY
61560 BARNWOOD INCORPORATED
61561 JERRYS OUTDOOR POWER & OUTERWEAR
61568 GARYS SMALL ENGINE REPAIR
WILD ZOO DESIGN
WILD ZOO FURNITURE
61575 EXQUISITE HARDWOOD FLOORS INC
61580 AUDIOWERKS
BEND ONSITE SCREENING
DISPLAY IT BIG

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LOOP 2014

61515 BEND TRANSMISSION COMPANY LLC
CELEBRATE THE SEASON
61522 BEND AUTOWORKS
61523 SERVICE MASTER
61526 WILCOX, SCOTT
61527 BRIANS CABINETS
EVERGREEN CLOSETS
61532 AMERICAN TOWING
61533 HODGE ALEX CONSTRUCTION
POWERS AUTOMATION INC
PROCRAFT HERITAGE CREATIONS
61543 COMPLETE MILLWRIGHT SERVICES
ROSE MACHINERY
61562 MEI COMMUNICATIONS
PINNACLE MEDIA INC
61563 ENTENMANNS OROWEAT FOODS COMPANY
61579 ALL PHASE ELECTRICAL SERVICE
UPCYCLE RESALE
61585 AUTO BODY CONCEPTS

Target Street	Cross Street	Source
-	✓	Cole Information

SE CENTENNIAL CT 2014

1134	BOUNCING OFF THE WALL
1141	MIKES AUTO PARTS CONNECTION INC
	REED PUB COMPANY
1151	AMERICAN REPROGRAPHICS COMPANY
	ARC
	J & R CANOPY
	MALL, REED
	SAGEBRUSH PRINTING
1182	BEND ROCK GYM

Target Street	Cross Street	Source
✓	-	Cole Information

SE REED MARKET RD 2014

905	CRAFTSMAN CARPET WAREHOUSE
	CRAFTSMAN CONTRACT CARPETS
1110	GAS SAVING TECHNOLOGIES
	LEGACY MOTORSPORTZ INC
	NABER, SALLY
	NORTHWEST STAPLE SUPPLY BEND INC
1310	BEND PARK & SELL
	CASCADIA VEHICLE TENTS
1320	COMPETITIVE EDGE ARCHERY
1350	INDIAN SUMMER
	ROWDY SWAFFORD ALLSTATE INSURANCE
	SWAFFORD INSURANCE
1370	H & H PUMP & EQUIPMENT
	HD FOWLER COMPANY
1450	EXPRESSWAY

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LN 2010

61450 HELLBUSCH, DAVE
61505 BEND PLASTIC SUPPLY
SUPERIOR DISPLAY
61510 ARCHERY DEN
ELITE PLASTERING
ONE SOURCE STUCCO & PLASTER
61511 BRUSH OFF
CROSBY & CO
NASHELLE JEWELRY
SYLAS BY NASHELLE
61520 HARDWOOD INDUSTRIES OF BEND
61526 AUTO CLINIC
TRANSMEDIC OF BEND
61530 COUNTRY FEED & PET SUPPLY LLC
61535 AWNINGS UNLIMITED
NEWMAN BROTHERS PAINTING LLC
61540 BEND HEATING & SHEET METAL INC
EQUITY MANAGEMENT & COMMERCIAL
HEARTLAND PAINTING
HIGH DESERT ASPHALT MARKING
JAMES HARRIS WHOLESALE INC
PEAK PERFORMANCE MAINTENANCE
STONE EXPRESSIONS LTD
WILLOW TREE TOYS
61550 AUTOMOTIVE MACHINE TECH INC
CASCADE SWISS PRODUCTS INC
EYE OF THE NEEDLE
JACKS UPHOLSTERY INC
61560 GARY NORMAN HOMES INC
61561 JERRYS OUTDOOR POWER
61568 GARYS SMALL ENGINE REPAIR
W L MAY CO INC
WILD ZOO
61575 EXQUISITE HARDWOOD FLOORS INC
61580 AUDIOWERKS
BEND ONSITE SCREENING
DISPLAY IT BIG

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LOOP 2010

61450 ACCENT AMENITIES INC
61515 CELEBRATE THE SEASON
61522 INTERMOUNTAIN TRUCK & AUTO RPR
61523 SERVICE MASTER CO
61526 WILCOX, SCOTT
61532 AMERICAN TOWING NW INC
61533 ACTIVE OFFICE FURNITURE
CENTRAL OREGON BUSINESS SVC
POWERS OF AUTOMATION INC
61542 PINE MOUNTAIN ACOUSTICAL INC
61543 COMPLETE MILLWRIGHT INC
ROSE MACHINERY
61562 MEI PRODUCTIONS
MOUNTAIN MAC PHTGRPHY & VIDEO
PINNACLE MEDIA INC
61563 ENTENMANNS BAKERY
61572 MARTIN LUMBER LLC
61573 PROCRAFT HERITAGE CREATIONS
61576 BOLINGER, DEAN
61579 ALL PHASE ELECTRIC SVC INC
CHOICEZI FABRIC & FURNITURE
PET MEMORIES
61585 AUTO BODY CONCEPTS

Target Street	Cross Street	Source
-	✓	Cole Information

SE CENTENNIAL CT 2010

1141 MIKES AUTO PARTS CONNECTION
REED PUB CO
1151 HIGH MARK MEDIA
MALL, REED
SAGEBRUSH PRINTING
1182 INCLIMB ROCK GYM & GUIDE SVC

Target Street	Cross Street	Source
✓	-	Cole Information

SE REED MARKET RD 2010

905	CRAFTSMEN CARPETS
990	HOBSON, BARRY
1100	ALL SUBARUS
	JNJ AUTO IMPORTS REPAIR
1110	A & B EXHAUST SPECIALIST
	ALL ASIAN & IMPORT SVC & RPR
	EXHAUST SPECIALISTS
	NORTHWEST STAPLE SUPPLY INC
	OREGON TOOL & EQUIPMENT
	S & S AUTO TRANSPORT
	SUMMIT SALT WATER SPAS
1310	BEND PARK & SELL
	CENTRAL OREGON WORKENSPORT
	HENRY GROUP OF OREGON LLC
1350	CENTRAL OREGON WHLS FLOORING
	ECO TECH BUILDING SUPPLY
1370	H D FOWLER CO
1450	EXPRESSWAY STORE

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LN 2005

61505	BEND PLASTIC SUPPLY
	SUPERIOR OAK
	TMS SERVICE
61510	DEL S ARCHERY DEN LLC
	THRIFTY SUPPLY OF BEND
61511	OCCUPANT UNKNOWN,
61515	AUTOMOTIVE MACHINE TECHNOLOGY INC
61520	HARDWOOD INDUSTRIES INC
61530	THE FEED BARN
61533	TRANSMISSION WAREHO
61535	AWNINGS UNLIMITED
	OBORNE, ROBERT
61540	BEND HEATING & SHEET METAL INC
	RADABAUGH CORP
	STONE EXPRESSIONS LIMITED
	SUNRISE ESPRESSO
61550	AUTOMOTIVE MACHINE TECHNOLOGY
	CASCADE SWISS PRODUCTS INC
	JACKS UPHOLSTERY INC
	PETERSON, JAMES
61560	GERMAN TRANSAXLE OF AMERICA
61561	JERRYS OUTDOOR POWER & OUTERWEAR
61575	BLUE SKY VETERINARY CLINIC
	BOLINGER DEAN DVM
61576	BOLINGER, DEAN
61580	AUDIOWERKS
	BEND ON SITE SCREENING
	DISPLAY IT BIG
	SPEEDWERKS
	VISIONS WINDOW TINTING

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LOOP 2005

61515	BRIAN STANDIFORD S AUTOMOTIVE TECH
61522	INTER MOUNTAIN TRUCK REPAIR INC
61523	SERVICEMASTER OF BEND
	WILCO PROPERTIES
61527	BRIANS CABINETS
61532	AMERICAN TOWING NW INC
	CHAVERS, DAN
61533	ACTIVE OFFICE FURNITURE
	CENTRAL OREGON BUSINESS SERVICES
	CUSTOM EXHAUST SPECIALTIES INC
	PERFORMANCE EXHAUST
	POWERS OF AUTOMATION INC
	POWERS PROPERTIES LLC
	PROPERTIES LLC
61542	PINE MOUNTAIN ACOUSTICAL INC
61543	COMPLETE MILLWRIGHT INC
	ROSE MACHINERY INC
61562	MC MURRAY ENTERPRISES INC
	MEI PRODUCTIONS INC
	TRONITE SECURITY ENFORCEMENT
61563	ENTENMANNS OROWEAT FOODS CO
61572	HERITAGE CREATIONS
	MARTIN LUMBER LLC
	RIVERCREST PAINTING LLC
61573	HERITAGE CREATIONS INC
	PROCRAFT HERITAGE INC
61579	ALL PHASE ELECTRIC SERVICE INC
	GUARDIAN SECURITY
61585	AUTO BODY CONCEPTS INC

Target Street	Cross Street	Source
✓	-	Cole Information

SE REED MARKET RD 2005

905 CRAFTSMEN CONTRACT CARPETS
D F TAPPERT / SPRINGWATER
990 HOBSON, BARRY
1110 BRONCO FENCE SUPPLY
NORTHWEST STAPLE SUPPLY BEND
OCCUPANT UNKNOWN,
1310 CENTRAL OREGON WORKENSPORT
1370 CARSMART INC
UNITED PIPE & SUPPLY CO INC
1450 ATM EXPRESS
EXPRESSWAY

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LN 2000

61510 ALBINA WHOLESALE
DELS ARCHERY DEN
MAULDIN, JIMMY
OBSIDIAN ARCHERY DISTR
61520 HARDWOOD INDUSTRIES OF BEND
61523 OCCUPANT UNKNOWN,
61530 CAR KARE
61535 AWNINGS UNLIMITED INCORPORATED
OBORNE, ROBERT
61540 BEND HEATING & SHEET METAL
61550 BEND GLASS & MIRROR
CASCADE SWISS PRODUCTS INCORPORATED
61560 GERMAN TRANSAXLE OF AMERICA
61561 JERRYS OUTDOOR POWER & OUTERWEAR
61575 BLUE SKY VETERINARY CLINIC
ROSE, T L
61580 ARMA COATINGS - CENTRAL OREGON
BEND ON SITE SCREENING

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LOOP 2000

61515 BRIAN STANDIFORDS AUTOMOTIVE TECHNOLOGIES
61523 SERVICEMASTER BEND
WILCO PROPERTIES
61527 BEND PLASTIC SUPPLY
BRIANS CABINETS
OGRADY, J
61532 AMERICAN TOWING
CHAVERS CUSTOM UPHOLSTERY
61533 ACTIVE OFFICE FURNITURE
ATKINS ELECTRIC
BURTON SHAYNE
BURTON, SHAYNE
61535 NEWMAN PAINTING & PRE FINISHING
61542 PINE MOUNTAIN ACOUSTICAL INCORPORATED
61543 COMPLETE MILLWRIGHT SERVICES
ROSE MACHINERY INCORPORATED
61553 RAM WELDING 8 INDUSTRIAL SUPPLY
61563 ENTENMANNS OROWEAT FOODS COMPANY
WONDER BREAD HOSTESS CAKE
61579 ALL PHASE ELECTRIC SERVICE
EAGLE MOUNTAIN CONSTRUCTION
61585 AUTO BODY CONCEPTS

Target Street	Cross Street	Source
✓	-	Cole Information

SE REED MARKET RD 2000

905	CRAFTSMEN CONTRACT CARPETS
1092	J & T AUTO BODY
1100	ALL AUTO REPAIR
	CENTRAL OREGON TRANSMISSION
1370	PINE RIDGE PUMP SALES AND SERVICE
1450	EXPRESSWAY

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LN 1995

61527 OPDYCKE, BRIAN
61535 AWNINGS UNLIMITED
WOODRUFF, JOHN
61575 MCDONALD, WADE B

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LOOP 1995

61515 BRIAN STANDIFORDS AUTOMOTIVE
61523 SERVICEMASTER
WILCOX CONSTRUCTION
61532 CHRIS AUTO SVC
61535 NEWMAN PAINTING INC
61543 COMPLETE MILLWRIGHT SVC
ROSE MACHINERY INC
61572 PROCRAFT INC

Target Street	Cross Street	Source
✓	-	Cole Information

SE REED MARKET RD 1995

905	C J HEATING
	CRAFTSMAN CONTRACT CARPETS
	SAM LANGMAS GROUNDS MNTNC
990	OLDAKER, SAM
1092	J & T AUTO BODY
1100	ALL AUTO REPAIR
1368	PINE RIDGE PUMP SLS & SVC
1370	KRUSE, CHRISTY
1450	EXPRESSWAY

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LN 1992

61535 AWNINGS UNLTD
WOODRUFF, JOHN

Target Street	Cross Street	Source
-	✓	Cole Information

AMERICAN LOOP 1992

61523 SERVICEMASTER BEND
WILCO PROPERTIES
WILCOX CONSTRCTN
61533 LEDBETTER, WILLIAM
61535 NEWMAN PNTG&PRE-FN
61542 PINE MTN ACOUSTCL
61543 CMPLT MLLWRGHT
ROSE MACHINERY
61553 A STEEL
RAM WELDING&SPLY

Target Street	Cross Street	Source
✓	-	Cole Information

SE REED MARKET RD 1992

905	CJ HEATING
	CLARENCE JAMES
990	OLDAKER, SAM
1092	HORZN AUTO BDY RPR
1100	ALL AUTO REPAIR
1368	PINE RIDGE PUMP
1450	EXPRESSWAY

Target Street	Cross Street	Source
-	✓	Polk's City Directory

AMERICAN LOOP 1989

AMERICAN LOOP (BEND)–FROM 20640 AMERICAN LANE WEST IN A CIRCLE

ZIP CODE 97702

61523 Servicemaster Of Bend carpet clng
389-1641

61543 Complete Millwright Servs (C M S)
388-2015

61553 R A M Welding & Industrial Supply
indus wldg 389-0315

Target Street	Cross Street	Source
✓	-	Polk's City Directory

SE REED MARKET RD 1989

★Collins Wade 389-6489
615 Patton Alton J W ◎ 382-1360
633 Vacant
651 Lee Marvin
685 Bright Lawrence C ◎ 388-4242
795 Vacant
855 Weisner's Automotive 388-1616
9TH ST INTERSECTS
990 Oldaker Sam 382-0527
AMERICAN LA INTERSECTS
1092 Horizon Auto Body & Paint Repair
389-1373
1096 Eurometric Import Serv 389-3151

Target Street	Cross Street	Source
✓	-	Polk's City Directory

SE REED MARKET RD 1989

1100 All Auto Repair 382-0108
1370 Pine Ridge Pump Sales & Service pump dlrs 382-5103
1450 Expressway 389-0933
15TH ST INTERSECTS

Target Street	Cross Street	Source
✓	-	Polk's City Directory

SE REED MARKET RD 1983

633 Vacant
651 Lee Marvin
685 Bright Lawrence C ◎
388-4242
795 Grub Lyon 382-2184
855 Weisner's Automotive
388-1616
9TH ST INTERSECTS
990 Oldaker Sam 382-0527
AMERICAN LA INTERSECTS
1092 Horizon Auto Body & Paint
389-1373
1100 Bud's Auto Service 382-4911
15TH ST INTERSECTS

APPENDIX E

EDR Environmental Database Report

Reed Market
905 Market Rd
Bend, OR 97702

Inquiry Number: 7746393.2s
August 28, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

905 MARKET RD
BEND, OR 97702

COORDINATES

Latitude (North):	44.0369910 - 44° 2' 13.16''
Longitude (West):	121.2887410 - 121° 17' 19.46''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	637118.1
UTM Y (Meters):	4877188.5
Elevation:	3726 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14877958 BEND, OR
Version Date:	2020

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200625
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
905 MARKET RD
BEND, OR 97702

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CRAFTSMAN CARPET WAR	905 SE REED MARKET R	OR UIC		TP
A2	HORIZON AUTO BODY	1092 SE REED MARKET	FINDS, ECHO	Higher	1 ft.
A3	HORIZON AUTO BODY	1092 SE REED MARKET	RCRA NonGen / NLR	Higher	1 ft.
A4	SCHATZ BUILDING	1050 SE REED MARKET	OR UIC	Higher	1 ft.
A5	CENTRAL OREGON TRANS	1096 SE REED MARKET	EDR Hist Auto	Higher	1 ft.
6	GERMAN TRANSAXLE OF	61560 AMERICAN LN	EDR Hist Auto	Higher	98, 0.019, SW
B7	AUTOBODY CONCEPTS IN	61585 AMERICAN LOOP	OR ECSI, OR VCP, RCRA NonGen / NLR, FINDS, ECHO,...	Higher	177, 0.034, WSW
B8	NW WHEEL AND TIRE	61579 AMERICAN LOOP	E MANIFEST	Higher	301, 0.057, WSW
B9	RIVERCREST PAINTING	61572 AMERICAN LOOP	RCRA NonGen / NLR	Higher	309, 0.059, WSW
C10	EXPRESSWAY STORE INC	1450 SE REED MARKET	OR LUST, OR UST, OR AST, OR AIRS, OR HSIS, OR UIC	Higher	406, 0.077, East
C11	EXPRESSWAY STORE INC	1450 SE REED MARKET	UST FINDER, UST FINDER RELEASE	Higher	406, 0.077, East
12	BLUE SKY VETERINARY	61575 AMERICAN LN	RCRA NonGen / NLR	Higher	449, 0.085, WSW
D13	HERITAGE CREATIONS	61573 AMERICAN LOOP	RCRA NonGen / NLR	Higher	489, 0.093, WSW
D14	PROCRAFT HERITAGE CR	61573 AMERICAN LOOP	RCRA NonGen / NLR, FINDS, ECHO, OR MANIFEST, OR...	Higher	489, 0.093, WSW
D15	TWO OLD HIPPIES	61573 AMERICAN LOOP	RCRA NonGen / NLR	Higher	489, 0.093, WSW
16	CAR KARE INC	1092 SE CENTENNIAL S	OR AST, OR HSIS	Lower	691, 0.131, WNW
E17	NEWMAN PAINTING & PR	61535 AMERICAN LANE	OR MANIFEST, OR UIC	Higher	767, 0.145, SW
E18	NEWMAN PAINTING INC	61535 AMERICAN LANE	RCRA-VSQG, FINDS, ECHO	Higher	767, 0.145, SW
19	PACIFIC LUMBER	1006 SE 9TH ST	OR ECSI, OR UIC	Lower	905, 0.171, NNW
20	BRIANS CABINETS	61527 AMERICAN LOOP	RCRA-VSQG, FINDS, ECHO, E MANIFEST, CA HAZNET, OR...	Higher	1068, 0.202, SW
21	CONSOLIDATED TOWING	1000 SE 9TH ST	OR AST	Higher	1182, 0.224, North
22	SANDERSON CO. - PARC	BROSTERHOUSE RD. & A	OR ECSI, OR CRL, OR ENG CONTROLS, OR VCP	Higher	2582, 0.489, SSW
23	BEND PLATING-PVD COA	550 SE BRIDGEFORD ST	OR ECSI, OR AIRS, OR HSIS, OR MANIFEST, OR UIC	Lower	2592, 0.491, North
24	BEND TRAP CLUB	61400 BROSTERHOUS RD	OR ECSI, OR VCP, FINDS	Higher	2970, 0.562, SW
25	CAPITOL CLEANERS (FO	SE 3RD ST. (BETWEEN	OR ECSI, OR VCP	Lower	3496, 0.662, WNW
F26	CARRERA MOTORS	1045 SE 3RD ST	OR ECSI, OR VCP	Lower	3624, 0.686, WNW
F27	CARRERA MOTORS - UIC	1045 SE 3RD ST	OR ECSI, OR VCP	Lower	3624, 0.686, WNW
28	CASCADE CLEANERS - D	1155 SW DIVISION ST	OR ECSI, FINDS	Lower	3870, 0.733, West
29	BURLINGTON NORTHERN	18S/12E/S9D & 16A	OR CRL, OR ECSI, OR VCP, FINDS	Higher	4292, 0.813, South
G30	ORDNANCE SER COMMAND		FUDS	Lower	4309, 0.816, NW
31	CENTRAL OREGON DRYCL	415 SE 3RD ST.	OR ECSI, OR VCP	Lower	4440, 0.841, NW
G32	BEND SCHOOL DISTRICT	501 SE 2ND ST	OR ECSI, OR LUST, OR UST, OR AST, OR HSIS	Lower	4479, 0.848, NW
33	BEND ORDNANCE & SERV	SE 2ND ST. & WILSON	OR ECSI	Lower	4694, 0.889, NW
34	CASCADE GYPSUM & BUI	689 SE GLENWOOD DR.	OR ECSI, OR VCP	Lower	4748, 0.899, NNW
35	SCHNITZER STEEL - BE	110 SE 5TH ST	OR ECSI, OR AST, OR UIC	Lower	4891, 0.926, NNW
36	BEND PARKWAY - HILL	HILL ST	OR ECSI, OR VCP, FINDS	Lower	4923, 0.932, WNW
37	NOSLER BULLETS INC.	61396 PARRELL RD.	OR ECSI, OR MANIFEST, OR UIC	Higher	5137, 0.973, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CRAFTSMAN CARPET WAR 905 SE REED MARKET R BEND, OR	OR UIC Facility Status: Registered & RA UIC Number: 13677	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators

RCRA-SQG RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

LUCIS Land Use Control Information System
US ENG CONTROLS Engineering Controls Sites List
US INST CONTROLS Institutional Controls Sites List

Federal ERNS list

ERNS Emergency Response Notification System

Lists of state and tribal landfills and solid waste disposal facilities

OR SWF/LF Solid Waste Facilities List

Lists of state and tribal leaking storage tanks

INDIAN LUST Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

FEMA UST Underground Storage Tank Listing
INDIAN UST Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

OR INST CONTROL Institutional Controls Recorded at ESCI Sites

Lists of state and tribal voluntary cleanup sites

INDIAN VCP Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

OR BROWNFIELDS Brownfields Projects

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

OR SWRCY Recycling Facility Location Listing
OR HIST LF Old Closed SW Disposal Sites
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory
IHS OPEN DUMPS Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

OR AOCONCERN Columbia Slough

US HIST CDL ---- Delisted National Clandestine Laboratory Register
OR CDL ---- Uninhabitable Drug Lab Properties
US CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---- CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
OR SPILLS ---- Spill Database
OR HAZMAT ---- Hazmat/Incidents
OR SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
MINES MRDS ---- Mineral Resources Data System
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
UXO ---- Unexploded Ordnance Sites
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
PFAS NPL ---- Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES ---- Federal Sites PFAS Information
PFAS TSCA ---- PFAS Manufacture and Imports Information

PFAS TRIS ---- List of PFAS Added to the TRI
PFAS RCRA MANIFEST ---- PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR ---- PFAS Contamination Site Location Listing
PFAS WQP ---- Ambient Environmental Sampling for PFAS
PFAS NPDES ---- Clean Water Act Discharge Monitoring Information
PFAS PROJECT ---- NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS ECHO ---- Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN ---- Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT ---- All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC ---- Aqueous Foam Related Incidents Listing
BIOSOLIDS ---- ICIS-NPDES Biosolids Facility Data
OR PFAS ---- PFAS Site Contamination Listing
OR AQUEOUS FOAM ---- AFFF Contamination Site Listing
OR COAL ASH ---- Coal Ash Disposal Sites Listing
OR DRYCLEANERS ---- Drycleaning Facilities
OR Enforcement ---- Enforcement Action Listing
OR Financial Assurance ---- Financial Assurance Information Listing
OR LUST HOT ---- Heating Oil Tank Clean-up Sites Listing
OR TANK HOT DECOM ---- Heating Oil Tank Clean Decommissioning Sites Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

OR RGA HWS ---- Recovered Government Archive State Hazardous Waste Facilities List
OR RGA LF ---- Recovered Government Archive Solid Waste Facilities List
OR RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA generators

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 2 RCRA-VSQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NEWMAN PAINTING INC EPA ID:: ORQ000002303	***61535 AMERICAN LANE***	***SW 1/8 - 1/4 (0.145 mi.)***	***E18***	***148***
BRIANS CABINETS EPA ID:: ORQ000011072	***61527 AMERICAN LOOP***	***SW 1/8 - 1/4 (0.202 mi.)***	***20***	***169***

Lists of state- and tribal hazardous waste facilities

OR ECSI: The Environmental Cleanup Site Information System records information about sites in Oregon that may be of environmental interest. The data come from the Department of Environmental Quality.

A review of the OR ECSI list, as provided by EDR, and dated 04/16/2024 has revealed that there are 17 OR ECSI sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AUTOBODY CONCEPTS IN Investigation: No Further Action State ID Number: 4969	***61585 AMERICAN LOOP***	***WSW 0 - 1/8 (0.034 mi.)***	***B7***	***12***
SANDERSON CO. - PARC Size: 107 acres Size: 5 acres Investigation: No Further Action Investigation: Listed on the CRL/Inventory State ID Number: 1247 State ID Number: 3127	***BROSTERHOUSE RD. & A***	***SSW 1/4 - 1/2 (0.489 mi.)***	***22***	***212***
BEND TRAP CLUB Size: 39.39 acres Investigation: No Further Action State ID Number: 4035	***61400 BROSTERHOUS RD***	***SW 1/2 - 1 (0.562 mi.)***	***24***	***264***
BURLINGTON NORTHERN Investigation: Listed on the CRL/Inventory State ID Number: 2060 Decode For Further Action: Medium-Low	***18S/12E/S9D & 16A***	***S 1/2 - 1 (0.813 mi.)***	***29***	***290***
NOSLER BULLETS INC.	***61396 PARRELL RD.***	***WSW 1/2 - 1 (0.973 mi.)***	***37***	***345***

Size: 1.1 acres
Investigation: Suspect
State ID Number: 86
Decode For Further Action: High

Lower Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC LUMBER	***1006 SE 9TH ST***	***NNW 1/8 - 1/4 (0.171 mi.)***	***19***	***167***
Size: ~ 4 acres Investigation: Suspect State ID Number: 5667				
BEND PLATING-PVD COA	***550 SE BRIDGEFORD ST***	***N 1/4 - 1/2 (0.491 mi.)***	***23***	***233***
Investigation: Suspect State ID Number: 5469				
CAPITOL CLEANERS (FO	***SE 3RD ST. (BETWEEN***	***WNW 1/2 - 1 (0.662 mi.)***	***25***	***273***
Investigation: No Further Action State ID Number: 3253				
CARRERA MOTORS	***1045 SE 3RD ST***	***WNW 1/2 - 1 (0.686 mi.)***	***F26***	***277***
Size: 2.5 acres Investigation: No Further Action State ID Number: 1955				
CARRERA MOTORS - UIC	***1045 SE 3RD ST***	***WNW 1/2 - 1 (0.686 mi.)***	***F27***	***283***
Investigation: No Further Action State ID Number: 4412				
CASCADE CLEANERS - D	***1155 SW DIVISION ST***	***W 1/2 - 1 (0.733 mi.)***	***28***	***287***
Investigation: No Further Action State ID Number: 2958				
CENTRAL OREGON DRYCL	***415 SE 3RD ST.***	***NW 1/2 - 1 (0.841 mi.)***	***31***	***300***
Investigation: No Further Action State ID Number: 2962				
BEND SCHOOL DISTRICT	***501 SE 2ND ST***	***NW 1/2 - 1 (0.848 mi.)***	***G32***	***305***
Investigation: Suspect State ID Number: 4207				
BEND ORDNANCE & SERV	SE 2ND ST. & WILSON	NW 1/2 - 1 (0.889 mi.)	33	320
Size: 39.7 acres Investigation: Suspect State ID Number: 3358 Decode For Further Action: Low				
CASCADE GYPSUM & BUI	***689 SE GLENWOOD DR.***	***NNW 1/2 - 1 (0.899 mi.)***	***34***	***322***
Investigation: No Further Action State ID Number: 3464				
SCHNITZER STEEL - BE	***110 SE 5TH ST***	***NNW 1/2 - 1 (0.926 mi.)***	***35***	***324***
Size: 5 acres Investigation: Suspect State ID Number: 1719 Decode For Further Action: Medium				
BEND PARKWAY - HILL	***HILL ST***	***WNW 1/2 - 1 (0.932 mi.)***	***36***	***338***
Investigation: No Further Action State ID Number: 1851				

OR CRL: Sites that are or may be contaminated and may require cleanup.

A review of the OR CRL list, as provided by EDR, and dated 04/16/2024 has revealed that there are 2 OR CRL sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANDERSON CO. - PARC	***BROSTERHOUSE RD. & A***	***SSW 1/4 - 1/2 (0.489 mi.)***	***22***	***212***
Facility Status: Closeout activities on completed project Facility Id: 1247				
BURLINGTON NORTHERN	***18S/12E/S9D & 16A***	***S 1/2 - 1 (0.813 mi.)***	***29***	***290***
Facility Status: Other remedial or investigative action recommended Facility Id: 2060				

Lists of state and tribal leaking storage tanks

OR LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's LUST Database List.

A review of the OR LUST list, as provided by EDR, and dated 04/01/2024 has revealed that there is 1 OR LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXPRESSWAY STORE INC	***1450 SE REED MARKET***	***E 0 - 1/8 (0.077 mi.)***	***C10***	***73***
Facility ID: 09-00-0008 Facility ID: 09-22-0752 Cleanup Complete: 06/19/2000				

Lists of state and tribal registered storage tanks

OR UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's UST List on Disk.

A review of the OR UST list, as provided by EDR, and dated 04/01/2024 has revealed that there is 1 OR UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXPRESSWAY STORE INC	***1450 SE REED MARKET***	***E 0 - 1/8 (0.077 mi.)***	***C10***	***73***
Facility ID: 9785				

OR AST: The Aboveground Storage Tank database contains registered ASTs. The data comes from the list of ASTs reported to the Office of State Fire Marshal.

A review of the OR AST list, as provided by EDR, and dated 02/06/2024 has revealed that there are 3 OR AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXPRESSWAY STORE INC Facility Id: 44304	***1450 SE REED MARKET***	***E 0 - 1/8 (0.077 mi.)***	***C10***	***73***
CONSOLIDATED TOWING Facility Id: 40162	1000 SE 9TH ST	N 1/8 - 1/4 (0.224 mi.)	21	210

Lower Elevation	Address	Direction / Distance	Map ID	Page
CAR KARE INC Facility Id: 10363	***1092 SE CENTENNIAL S***	***WNW 1/8 - 1/4 (0.131 mi.)***	***16***	***137***

State and tribal institutional control / engineering control registries

OR ENG CONTROLS: Engineering controls are physical measures selected or approved by the Director for the purpose of preventing or minimizing exposure to hazardous substances.Engineering controls may include, but are not limited to, fencing, capping, horizontal or vertical barriers, hydraulic controls, and alternative water supplies.

A review of the OR ENG CONTROLS list, as provided by EDR, and dated 04/16/2024 has revealed that there is 1 OR ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SANDERSON CO. - PARC Site Id: 1247	***BROSTERHOUSE RD. & A***	***SSW 1/4 - 1/2 (0.489 mi.)***	***22***	***212***

Lists of state and tribal voluntary cleanup sites

OR VCP: Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

A review of the OR VCP list, as provided by EDR, and dated 10/04/2023 has revealed that there are 2 OR VCP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AUTOBODY CONCEPTS IN Action: Letter Agreement Action: NEGOTIATIONS Action: NO FURTHER STATE ACTION REQUIRED ECS Site ID: 4969	***61585 AMERICAN LOOP***	***WSW 0 - 1/8 (0.034 mi.)***	***B7***	***12***
SANDERSON CO. - PARC Action: Engineering Control Action: FEASIBILITY STUDY Action: Facility placed on Confirmed Release List Action: Facility placed on Inventory Action: Letter Agreement **Additional key fields are available in the Map Findings section* ECS Site ID: 1247	***BROSTERHOUSE RD. & A***	***SSW 1/4 - 1/2 (0.489 mi.)***	***22***	***212***

EXECUTIVE SUMMARY

ECS Site ID: 3127
Facility Size: 107 acres
Facility Size: 5 acres

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/03/2024 has revealed that there are 7 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HORIZON AUTO BODY EPA ID:: ORD114151335	1092 SE REED MARKET	0 - 1/8 (0.000 mi.)	A3	8
AUTOBODY CONCEPTS IN EPA ID:: ORQ000002402	***61585 AMERICAN LOOP***	***WSW 0 - 1/8 (0.034 mi.)***	***B7***	***12***
RIVERCREST PAINTING EPA ID:: ORSTATE06456	61572 AMERICAN LOOP	WSW 0 - 1/8 (0.059 mi.)	B9	70
BLUE SKY VETERINARY EPA ID:: ORSTATE04208	61575 AMERICAN LN	WSW 0 - 1/8 (0.085 mi.)	12	86
HERITAGE CREATIONS EPA ID:: ORSTATE05978	61573 AMERICAN LOOP	WSW 0 - 1/8 (0.093 mi.)	D13	88
PROCRAFT HERITAGE CR EPA ID:: ORQ000018333	***61573 AMERICAN LOOP***	***WSW 0 - 1/8 (0.093 mi.)***	***D14***	***91***
TWO OLD HIPPIES EPA ID:: ORSTATE09396	61573 AMERICAN LOOP	WSW 0 - 1/8 (0.093 mi.)	D15	135

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 05/13/2024 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ORDNANCE SER COMMAND		NW 1/2 - 1 (0.816 mi.)	G30	299

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/09/2024 has revealed that there is 1 FINDS site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HORIZON AUTO BODY Registry ID:: 110044947715	***1092 SE REED MARKET***	***0 - 1/8 (0.000 mi.)***	***A2***	***8***

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 06/23/2024 has revealed that there is 1 ECHO site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HORIZON AUTO BODY Registry ID: 110044947715	***1092 SE REED MARKET***	***0 - 1/8 (0.000 mi.)***	***A2***	***8***

UST FINDER: EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXPRESSWAY STORE INC	***1450 SE REED MARKET***	***E 0 - 1/8 (0.077 mi.)***	***C11***	***84***

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER RELEASE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXPRESSWAY STORE INC	***1450 SE REED MARKET***	***E 0 - 1/8 (0.077 mi.)***	***C11***	***84***

EXECUTIVE SUMMARY

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 07/24/2023 has revealed that there are 2 E MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NW WHEEL AND TIRE	61579 AMERICAN LOOP	WSW 0 - 1/8 (0.057 mi.)	B8	68
BRIANS CABINETS	***61527 AMERICAN LOOP***	***SW 1/8 - 1/4 (0.202 mi.)***	***20***	***169***

OR MANIFEST: Hazardous waste manifest information.

A review of the OR MANIFEST list, as provided by EDR, and dated 12/31/2020 has revealed that there are 4 OR MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AUTOBODY CONCEPTS IN	***61585 AMERICAN LOOP***	***WSW 0 - 1/8 (0.034 mi.)***	***B7***	***12***
Status: SQG				
Status: Small quantity generator				
EPA Id: ORQ000002402				
PROCRAFT HERITAGE CR	***61573 AMERICAN LOOP***	***WSW 0 - 1/8 (0.093 mi.)***	***D14***	***91***
Status: SQG				
Status: Small quantity generator				
EPA Id: ORQ000018333				
NEWMAN PAINTING & PR	***61535 AMERICAN LANE***	***SW 1/8 - 1/4 (0.145 mi.)***	***E17***	***146***
Status: CEG				
Status: LQG				
Status: Large quantity generator				
EPA Id: ORQ000002303				
BRIANS CABINETS	***61527 AMERICAN LOOP***	***SW 1/8 - 1/4 (0.202 mi.)***	***20***	***169***
Status: CEG				
Status: SQG				
Status: Small quantity generator				
Status: Conditionally exempt generator				
EPA Id: ORQ000011072				

OR UIC: DEQ's Underground Injection Control Program is authorized by the Environmental Protection Agency (EPA) to regulate all underground injection in Oregon to protect groundwater resources.

A review of the OR UIC list, as provided by EDR, and dated 06/20/2024 has revealed that there is 1 OR UIC site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SCHATZ BUILDING	1050 SE REED MARKET	0 - 1/8 (0.000 mi.)	A4	11
Facility Status: Registered & RA				
UIC Number: 11574				

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

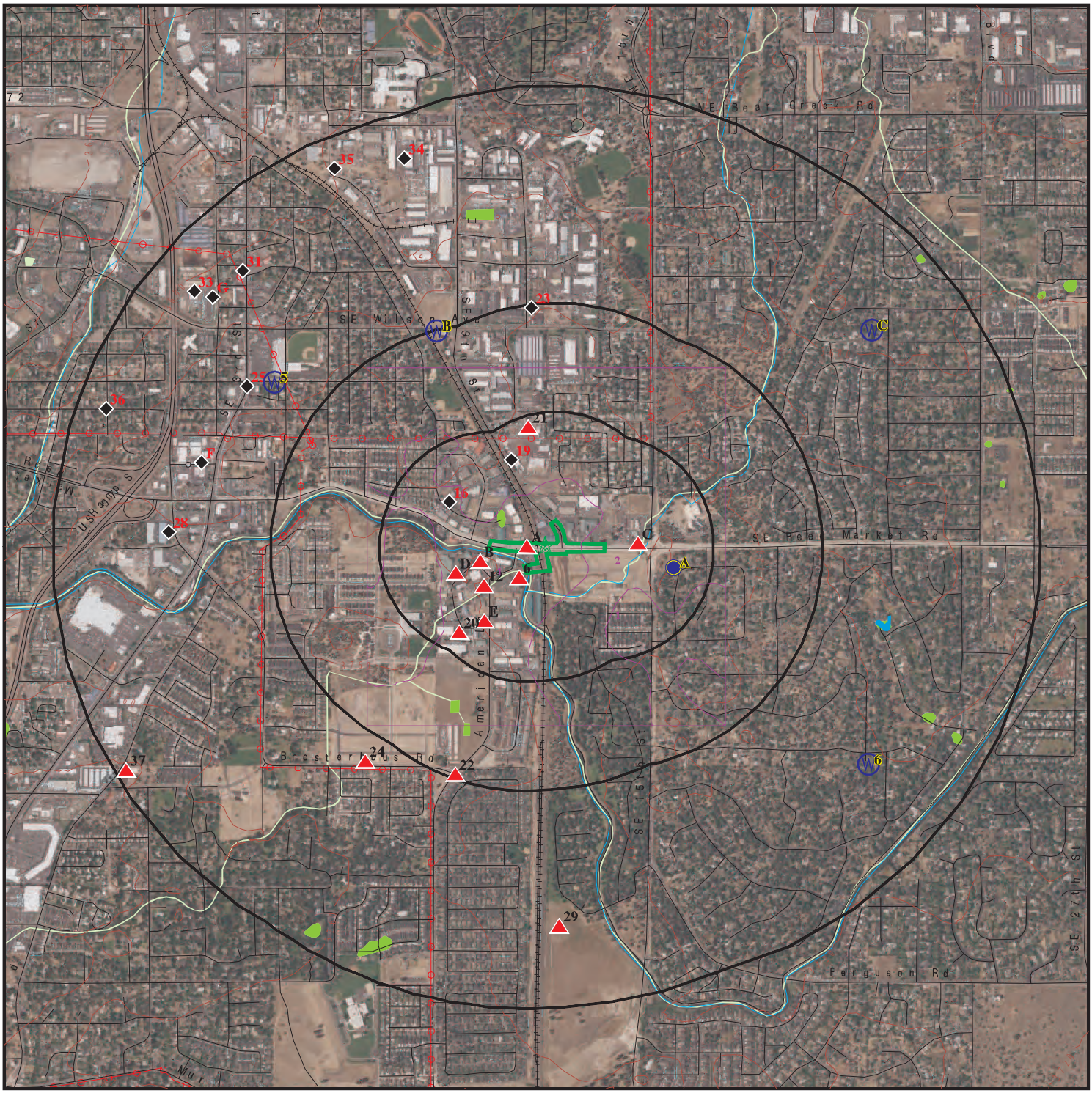
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CENTRAL OREGON TRANS	1096 SE REED MARKET	0 - 1/8 (0.000 mi.)	A5	12
GERMAN TRANSAXLE OF	61560 AMERICAN LN	SW 0 - 1/8 (0.019 mi.)	6	12

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
BN RR - BEND 53 & 52	OR LUST, OR UST
DAW FOREST PRODUCTS L.P.	OR LUST
ROW EMPIRE AVE, BUTLER MARKET RD,	OR UIC

OVERVIEW MAP - 7746393.2S



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Reed Market	CLIENT:	Coles & Betts Environmental Consulting LLC
ADDRESS:	905 Market Rd Bend OR 97702	CONTACT:	Ms. Jill Betts
		INQUIRY #:	7746393.2s
LAT/LONG:	44.036991 / 121.288741	DATE:	August 28, 2024 8:48 am

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DETAIL MAP - 7746393.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Reed Market	CLIENT:	Coles & Betts Environmental Consulting LLC
ADDRESS:	905 Market Rd Bend OR 97702	CONTACT:	Ms. Jill Betts
		INQUIRY #:	7746393.2s
LAT/LONG:	44.036991 / 121.288741	DATE:	August 28, 2024 8:49 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	2	NR	NR	NR	2
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
OR ECSI	1.000		1	1	2	13	NR	17
OR CRL	1.000		0	0	1	1	NR	2
Lists of state and tribal landfills and solid waste disposal facilities								
OR SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
OR LUST	0.500		1	0	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
OR UST	0.250		1	0	NR	NR	NR	1
OR AST	0.250		1	2	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
OR ENG CONTROLS	0.500		0	0	1	NR	NR	1
OR INST CONTROL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
OR VCP	0.500		1	0	1	NR	NR	2
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
OR BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
OR SWRCY	0.500		0	0	0	NR	NR	0
OR HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
OR AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
OR CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
OR SPILLS	0.001		0	NR	NR	NR	NR	0
OR HAZMAT	0.001		0	NR	NR	NR	NR	0
OR SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		7	0	NR	NR	NR	7

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	0.001		1	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		1	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST FINDER	0.250		1	0	NR	NR	NR	1
UST FINDER RELEASE	0.500		1	0	0	NR	NR	1
E MANIFEST	0.250		1	1	NR	NR	NR	2
OR PFAS	0.250		0	0	NR	NR	NR	0
OR AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
OR AIRS	0.001		0	NR	NR	NR	NR	0
OR COAL ASH	0.500		0	0	0	NR	NR	0
OR DRYCLEANERS	0.250		0	0	NR	NR	NR	0
OR Enforcement	0.001		0	NR	NR	NR	NR	0
OR Financial Assurance	0.001		0	NR	NR	NR	NR	0
OR HSIS	0.001		0	NR	NR	NR	NR	0
OR MANIFEST	0.250		2	2	NR	NR	NR	4
CA HAZNET	TP		NR	NR	NR	NR	NR	0
OR NPDES	0.001		0	NR	NR	NR	NR	0
OR UIC	0.001	1	1	NR	NR	NR	NR	2
OR LUST HOT	0.500		0	0	0	NR	NR	0
OR TANK HOT DECOM	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
OR RGA HWS	0.001		0	NR	NR	NR	NR	0
OR RGA LF	0.001		0	NR	NR	NR	NR	0
OR RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		1	22	8	5	15	0	51

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CRAFTSMAN CARPET WAREHOUSE** **OR UIC** **S109577773**
Target Property **905 SE REED MARKET RD** **N/A**
BEND, OR

Site 1 of 5 in cluster A

Actual: 3726 ft.

OR UIC:
Name: CRAFTSMAN CARPET WAREHOUSE
Address: 905 SE REED MARKET RD
City,State,Zip: BEND, OR
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 13677
Facility Status: Registered & RA
Lat/Long: 44.0371 / -121.2929

A2 **HORIZON AUTO BODY** **FINDS** **1015815043**
1092 SE REED MARKET RD **ECHO** **N/A**
< 1/8 **BEND, OR 97702**
1 ft.

Site 2 of 5 in cluster A

Relative: Higher

Actual: 3730 ft.

FINDS:
Registry ID: 110044947715

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1015815043
Registry ID: 110044947715
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110044947715
Name: HORIZON AUTO BODY
Address: 1092 SE REED MARKET RD
City,State,Zip: BEND, OR 97702

A3 **HORIZON AUTO BODY** **RCRA NonGen / NLR** **1004770131**
1092 SE REED MARKET RD **ORD114151335**
< 1/8 **BEND, OR 97702**
1 ft.

Site 3 of 5 in cluster A

Relative: Higher

Actual: 3730 ft.

RCRA Listings:
Date Form Received by Agency: 19891017
Handler Name: Horizon Auto Body
Handler Address: 1092 Se Reed Market Rd
Handler City,State,Zip: BEND, OR 97702
EPA ID: ORD114151335

HORIZON AUTO BODY (Continued) **1004770131**

Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	Not reported
Mailing City,State,Zip:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20120119
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

HORIZON AUTO BODY (Continued) **1004770131**

Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste
Waste Code:	F003
Waste Description:	The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.
Waste Code:	F005
Waste Description:	The Following Spent Nonhalogenated Solvents: Toluene, Methyl Ethyl Ketone, Carbon Disulfide, Isobutanol, Pyridine, Benzene, 2-Ethoxyethanol, And 2-Nitropropane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, Or F004; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SAM OLDERER	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19891017
Handler Name: HORIZON AUTO BODY	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

HORIZON AUTO BODY (Continued) **1004770131**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19891016
Handler Name: HORIZON AUTO BODY
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Or
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A4 **SCHATZ BUILDING** **OR UIC** **S111242507**
1050 SE REED MARKET ROAD **N/A**
< 1/8 **BEND, OR**
1 ft.

Site 4 of 5 in cluster A

Relative: Higher
Actual: 3733 ft.

OR UIC:
Name: SCHATZ BUILDING
Address: 1050 SE REED MARKET ROAD
City,State,Zip: BEND, OR
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 11574
Facility Status: Registered & RA
Lat/Long: 44.0373 / -121.2907

Name: SCHATZ BUILDING
Address: 1050 SE REED MARKET ROAD
City,State,Zip: BEND, OR
UIC Well #: 2
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 11574
Facility Status: Registered & RA
Lat/Long: 44.0373 / -121.2907

A5
< 1/8
1 ft.

CENTRAL OREGON TRANSMISSION
1096 SE REED MARKET RD
BEND, OR 97702

Site 5 of 5 in cluster A

EDR Hist Auto **1021060313**
N/A

Relative: Higher

Actual: 3730 ft.

EDR Hist Auto

Year:	Name:	Type:
1996	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
1997	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
1998	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
1999	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
2000	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
2003	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
2004	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
2005	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
2006	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
2007	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops
2008	CENTRAL OREGON TRANSMISSION	Automotive Transmission Repair Shops

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6
SW
< 1/8
0.019 mi.
98 ft.

GERMAN TRANSAXLE OF AMERICA
61560 AMERICAN LN
BEND, OR 97702

EDR Hist Auto **1022067051**
N/A

Relative: Higher

Actual: 3734 ft.

EDR Hist Auto

Year:	Name:	Type:
1996	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
1997	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
1998	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
1999	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2000	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2001	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2002	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2003	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2004	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2005	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2006	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2007	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2008	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2009	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2010	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2011	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops
2012	GERMAN TRANSAXLE OF AMERICA	Automotive Transmission Repair Shops

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B7
WSW
< 1/8
0.034 mi.
177 ft.

AUTOBODY CONCEPTS INC
61585 AMERICAN LOOP
BEND, OR 97702

Site 1 of 3 in cluster B

OR ECSI **1001203321**
OR VCP **ORQ000002402**
RCRA NonGen / NLR
FINDS
ECHO
OR MANIFEST
OR NPDES
OR UIC

Relative: Higher

Actual: 3743 ft.

ECSI:

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Name:	AUTOBODY CONCEPTS - UIC
Address:	61585 AMERICAN LOOP
City,State,Zip:	BEND, OR 97702
State ID Number:	4969
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	9863
Further Action:	0
Lat/Long (dms):	44 2 10.00 / -121 17 28.70
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	9
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	03/25/2009
Created Date:	04/07/2008
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5750322
NARR Code:	Contamination
Created By:	DCROUSE
Created Date:	04/07/2008
Updated By:	DCROUSE
Updated Date:	04/07/2008
Decode for NarcdID:	Contamination
NARR Comments:	(4/7/08 DMC/SAS) DEQ UIC program referral for dry well with subsurface contamination exceeding risk-based concentrations.

NARR ID:	5750323
NARR Code:	Data Sources
Created By:	DCROUSE
Created Date:	04/07/2008
Updated By:	DCROUSE
Updated Date:	04/07/2008
Decode for NarcdID:	Data Sources
NARR Comments:	1. DEQ UIC program referral (4/3/08).

NARR ID:	5750324
NARR Code:	Remedial Action
Created By:	DCROUSE
Created Date:	04/07/2008

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Updated By: KROBERT
Updated Date: 04/17/2008
Decode for NarcdID: Remedial Action
NARR Comments: (4/7/08 DMC/SAS) Site will most likely be addressed by the Voluntary (VCP) or Independent (ICP) Cleanup programs. (4/17/08 KJR/VCP) ICP agreement and deposit recieved.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 04/07/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/07/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Eastern Region
Complete Date: 04/16/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/07/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 04/17/2008
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/28/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 11/13/2008
Rank Value: Not reported
Cleanup Flag: True
Created Date: 12/26/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135385
Operation Status: Active
Common Name: Autobody Concepts - UIC
Yrs of Operation: Not reported
Comments: Autobody shop.
Updated Date: 04/07/2008
Updated By: DCROUSE
Decode for OpstatID: Active
Operations SIC Id: 198829
SIC Code: 7500
Created By: DCROUSE
Created Date: 04/07/2008

VCS:
Name: AUTOBODY CONCEPTS - UIC
Address: 61585 AMERICAN LOOP
City,State,Zip: BEND, OR 97702
ECS Site ID: 4969
Facility Size: Not reported
Action: Letter Agreement
Start Date: 04/17/2008
End Date: 04/17/2008
Program: ICP
Latitude: 44.0361
Longitude: -121.2913
Primary Action Flag: False
Investigation Code: NFA

Name: AUTOBODY CONCEPTS - UIC
Address: 61585 AMERICAN LOOP
City,State,Zip: BEND, OR 97702
ECS Site ID: 4969
Facility Size: Not reported
Action: NEGOTIATIONS
Start Date: 04/07/2008
End Date: 04/16/2008
Program: ICP
Latitude: 44.0361
Longitude: -121.2913
Primary Action Flag: False
Investigation Code: NFA

Name: AUTOBODY CONCEPTS - UIC
Address: 61585 AMERICAN LOOP
City,State,Zip: BEND, OR 97702
ECS Site ID: 4969
Facility Size: Not reported
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 11/13/2008
End Date: 11/13/2008

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Program:	ICP
Latitude:	44.0361
Longitude:	-121.2913
Primary Action Flag:	True
Investigation Code:	NFA

RCRA Listings:

Date Form Received by Agency:	20081231
Handler Name:	Autobody Concepts Inc
Handler Address:	61585 American Loop
Handler City,State,Zip:	BEND, OR 97702
EPA ID:	ORQ000002402
Contact Name:	JASON REID
Contact Address:	61585 AMERICAN LOOP
Contact City,State,Zip:	BEND, OR 97702
Contact Telephone:	541-382-8678
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	61585 AMERICAN LOOP
Mailing City,State,Zip:	BEND, OR 97702
Owner Name:	Autobody Concepts Inc
Owner Type:	Private
Operator Name:	Autobody Concepts Inc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	F003
Waste Description:	The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	19960226
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	19980416
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Owner/Operator Indicator:	Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	19990308
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20020122
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20030305
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20061231
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20061231
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20071231
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20081231
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 19970416
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 19970416
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20010416
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20041231
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20041231
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20000418
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20031231
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Date Became Current:	19980416
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	19990308
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20010416
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20080812
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20000418
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Owner/Operator Indicator:	Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20051231
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20071231
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20020122
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	20051231
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC	
Legal Status:	Private
Date Became Current:	19960226
Date Ended Current:	Not reported
Owner/Operator Address:	61585 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-8678
Owner/Operator Telephone Ext:	Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20031231
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20030305
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 20080812
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: AUTOBODY CONCEPTS INC
Legal Status: Private
Date Became Current: 19960226
Date Ended Current: Not reported
Owner/Operator Address: 61585 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-8678
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960226
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970416
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19980416
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990308
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20000418
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010416
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020122
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20030305
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20031231
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20041231
Handler Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20051231
Handler Name: AUTOBODY CONCEPTS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20061231
Handler Name: AUTOBODY CONCEPTS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20071231
Handler Name: AUTOBODY CONCEPTS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20080812
Handler Name: AUTOBODY CONCEPTS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20081231
Handler Name: AUTOBODY CONCEPTS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20080808
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier:	ORJLF
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110004810401

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
The Oregon Department of Environmental Quality (DEQ) is a regulatory agency tasked with protecting the quality of Oregon's environment. DEQ uses a combination of technical assistance, inspections, and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1001203321
Registry ID:	110004810401
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004810401
Name:	AUTOBODY CONCEPTS INC
Address:	61585 AMERICAN LOOP
City,State,Zip:	BEND, OR 97702

OR MANIFEST:

Manifest Year:	Manifest Year - 2007
EPA Id:	ORQ000002402
Inactive Status:	Not reported
Organization Name:	Not reported
Contact Name:	Randy Reid

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Contact Telephone Number: 541 382-8678
Mailing Address: 61585 American Loop
Mailing City/State/Zip: Bend, OR 97702

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 2007
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 000263500
Ship Date : 07/17/2007
TSD : WAD981769110
WS Num: 1
Transporter: WAH000012450
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER & THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1835.77
Total Amt Of Waste Stream Generated in Reporting Yr 2: 229.47

Name: AUTOBODY CONCEPTS INC
Year : 2007
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 001323305
Ship Date : 05/01/2007
TSD : WAD981769110
WS Num: 1
Transporter: WAH000012450
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER & THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1835.77
Total Amt Of Waste Stream Generated in Reporting Yr 2: 458.94

Name: AUTOBODY CONCEPTS INC
Year : 2007
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 001324133
Ship Date : 01/25/2007
TSD : WAD981769110
WS Num: 1
Transporter: WAH000012450
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER & THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1835.77

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 688.40999999999997

Name: AUTOBODY CONCEPTS INC
Year : 2007
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 001419205
Ship Date : 10/09/2007
TSD : WAD981769110
WS Num: 1
Transporter: WAH000012450
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER & THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1835.77
Total Amt Of Waste Stream Generated in Reporting Yr 2: 229.47

Name: AUTOBODY CONCEPTS INC
Year : 2007
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 001419339
Ship Date : 08/14/2007
TSD : WAD981769110
WS Num: 1
Transporter: WAH000012450
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER & THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1835.77
Total Amt Of Waste Stream Generated in Reporting Yr 2: 229.47

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 2006
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 001420283
Ship Date : 10/26/2006
TSD : WAD981769110
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER AND THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2006
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 40930
Ship Date : 02/16/2006
TSD : WAD981769110
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER AND THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2006
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 46310
Ship Date : 03/22/2006
TSD : WAD981769110
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER AND THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2006
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 64590
Ship Date : 06/06/2006
TSD : WAD981769110
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER AND THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 2006
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 69690
Ship Date : 07/19/2006
TSD : WAD981769110
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER AND THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2006
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 73010
Ship Date : 08/17/2006
TSD : WAD981769110
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F003 F005
Waste Description: 55 GALLON DRUM TO HOLD PAINT, PRIMMER AND THINNER WASTE UNTIL PICKED UP
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 2004
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 25059
Ship Date : 02/03/2004
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F005 F008
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 2004
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 25907
Ship Date : 03/24/2004
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F005 F008
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2004
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 27178
Ship Date : 06/11/2004
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F005 F008
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2004
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 27777
Ship Date : 07/23/2004
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F005 F008
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2004
RCRA Id : ORQ000002402
Inactive : Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Status: Small quantity generator
Manifest : 28822
Ship Date : 09/21/2004
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F005 F008
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2004
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 29578
Ship Date : 11/03/2004
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F005 F008
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: AUTOBODY CONCEPTS INC
Year : 2004
RCRA Id : ORQ000002402
Inactive : Not reported
Status: Small quantity generator
Manifest : 30003
Ship Date : 12/02/2004
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H040
EPA Waste Codes: D001 D035 F005 F008
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Status: Small quantity generator
Manifest : 19330
Ship Date : 02/10/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 19330
Ship Date : 02/10/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D035
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 19330
Ship Date : 02/10/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F005
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 19330
Ship Date : 02/10/2003

AUTOBODY CONCEPTS INC (Continued) **1001203321**

TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F006
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20184
Ship Date : 03/31/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20184
Ship Date : 03/31/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D035
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20184
Ship Date : 03/31/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F005
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20184
Ship Date : 03/31/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F006
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20808
Ship Date : 05/01/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20808
Ship Date : 05/01/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040

AUTOBODY CONCEPTS INC (Continued) **1001203321**

EPA Waste Codes: D035
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Click this hyperlink while viewing on your computer to access
125 additional OR_MANIFEST: record(s) in the EDR Site Report.

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20808
Ship Date : 05/01/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F005
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20808
Ship Date : 05/01/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F006
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 21927
Ship Date : 07/09/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040

AUTOBODY CONCEPTS INC (Continued) **1001203321**

EPA Waste Codes: D001
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 21927
Ship Date : 07/09/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D035
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 21927
Ship Date : 07/09/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F005
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 21927
Ship Date : 07/09/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F006
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 22437
Ship Date : 08/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 22437
Ship Date : 08/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D035
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC
Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 22437
Ship Date : 08/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F005
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 2003
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 22437
Ship Date : 08/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F006
Waste Description: 55 Gal drum to hold paint, primer, and thinner waste, to be picked up by e
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1665.1613
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.1451625

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 15058
Ship Date : 03/13/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 15673
Ship Date : 05/22/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 16517
Ship Date : 07/17/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 17218
Ship Date : 08/27/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 17561
Ship Date : 09/24/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Status: Small quantity generator
Manifest : 17813
Ship Date : 11/13/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 18627
Ship Date : 12/03/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 52160
Ship Date : 01/29/2002
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 52780
Ship Date : 02/20/2002

AUTOBODY CONCEPTS INC (Continued) **1001203321**

TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2002
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 52901
Ship Date : 04/17/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint and primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2081.451625
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

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125 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 2001
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 10489
Ship Date : 01/25/2001
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1664
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2001
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Status: Small quantity generator
Manifest : 11393
Ship Date : 03/21/2001
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1664
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2001
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 11847
Ship Date : 06/13/2001
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1664
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2001
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 13312
Ship Date : 07/25/2001
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1664
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2001
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 13844
Ship Date : 09/12/2001

AUTOBODY CONCEPTS INC (Continued) **1001203321**

TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1664
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2001
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 14469
Ship Date : 11/27/2001
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1664
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2001
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 51627
Ship Date : 10/23/2001
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1664
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Name: AUTOBODY CONCEPTS INC
Year : 2001
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 51940
Ship Date : 12/19/2001
TSD : CAD980884183
WS Num: 1
Transporter: Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1664
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 01258
Ship Date : 02/01/2000
TSD : ORD981766124
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 09070
Ship Date : 02/25/2000
TSD : ORD981766124
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 13076
Ship Date : 03/29/2000
TSD : ORD981766124
WS Num: 1
Transporter: Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 30232
Ship Date : 04/27/2000
TSD : ORD981766124
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 55883
Ship Date : 05/16/2000
TSD : ORD981766124
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 90712
Ship Date : 01/07/2000
TSD : ORD981766124
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041

AUTOBODY CONCEPTS INC (Continued) **1001203321**

EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 97771
Ship Date : 07/27/2000
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 98750
Ship Date : 09/27/2000
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 99217
Ship Date : 10/27/2000
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: AUTOBODY CONCEPTS INC
Year : 2000
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 99956
Ship Date : 12/13/2000
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer & reducer.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1319
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

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Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 00386
Ship Date : 12/07/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 09042
Ship Date : 07/20/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041

AUTOBODY CONCEPTS INC (Continued) **1001203321**

EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 09057
Ship Date : 11/09/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 13236
Ship Date : 04/20/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 33376
Ship Date : 06/22/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 41849
Ship Date : 03/02/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 54721
Ship Date : 05/25/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 212

Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 80733
Ship Date : 10/13/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 87917
Ship Date : 01/05/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 96529
Ship Date : 02/03/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

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Name: AUTOBODY CONCEPTS INC
Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 98969
Ship Date : 09/14/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 1999
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 99575
Ship Date : 08/17/1999
TSD : SCD987574647
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refininshing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1273
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 103161
Ship Date : 01/07/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 13881
Ship Date : 12/08/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 20664
Ship Date : 09/15/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 196

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 22864
Ship Date : 11/11/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 203

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 23592
Ship Date : 10/13/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 196

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Status: Small quantity generator
Manifest : 52276
Ship Date : 02/04/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 62205
Ship Date : 04/01/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 62632
Ship Date : 05/27/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 66767
Ship Date : 03/04/1998

AUTOBODY CONCEPTS INC (Continued) **1001203321**

TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 82123
Ship Date : 07/23/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

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Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 83418
Ship Date : 06/25/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 93893
Ship Date : 08/18/1998

AUTOBODY CONCEPTS INC (Continued) **1001203321**

TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Name: AUTOBODY CONCEPTS INC
Year : 1998
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 95163
Ship Date : 04/29/1998
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over Paint, Primer and Reducer for Autobody Repair and Refinishing Aut
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1493
Total Amt Of Waste Stream Generated in Reporting Yr 2: 98

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 02385
Ship Date : 02/05/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 03948
Ship Date : 06/26/1997

AUTOBODY CONCEPTS INC (Continued) **1001203321**

TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 14255
Ship Date : 12/10/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 23805
Ship Date : 11/11/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 29626
Ship Date : 03/05/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 34781
Ship Date : 09/17/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 35000
Ship Date : 01/08/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 41640
Ship Date : 10/13/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041

AUTOBODY CONCEPTS INC (Continued) **1001203321**

EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 49912
Ship Date : 05/02/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 59738
Ship Date : 07/25/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Click this hyperlink while viewing on your computer to access
125 additional OR_MANIFEST: record(s) in the EDR Site Report.

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 80658
Ship Date : 08/20/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041

AUTOBODY CONCEPTS INC (Continued) **1001203321**

EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 83956
Ship Date : 04/10/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1997
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 98983
Ship Date : 05/30/1997
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1127
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Manifest:
Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 05094
Ship Date : 05/30/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041

AUTOBODY CONCEPTS INC (Continued) **1001203321**

EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 16751
Ship Date : 07/25/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 27914
Ship Date : 06/28/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 30586
Ship Date : 03/13/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 33928
Ship Date : 08/23/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 36861
Ship Date : 10/17/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 39472
Ship Date : 02/07/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 104

Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 43068
Ship Date : 10/10/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 53417
Ship Date : 09/18/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 220

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 76342
Ship Date : 11/15/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

Click this hyperlink while viewing on your computer to access
125 additional OR_MANIFEST: record(s) in the EDR Site Report.
Name: AUTOBODY CONCEPTS INC

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 81634
Ship Date : 12/12/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 16

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 84632
Ship Date : 04/03/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 114

Name: AUTOBODY CONCEPTS INC
Year : 1996
RCRA Id : ORQ000002402
Inactive : 2008-12-31 00:00:00
Status: Small quantity generator
Manifest : 91181
Ship Date : 05/08/1996
TSD : ILD984908202
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: F003
Waste Description: Left over paint, primer and reducer for autobody repair and refinishing
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1407
Total Amt Of Waste Stream Generated in Reporting Yr 2: 118

NPDES:
Name: AUTO BODY CONCEPTS
Address: 61585 AMERICAN LOOP

AUTOBODY CONCEPTS INC (Continued) **1001203321**

City,State,Zip:	BEND, OR 97702
WQ File Nbr:	108761
Legal Name:	REID, RANDALL; REID, CHRISTINA
Region:	ER
Pri SIC:	7532
Latitude:	44.0361
Longitude:	-121.2913
Category:	DOMESTIC
Permit Type:	GEN51b
Permit Active:	False
Permit Description:	5102
Expiration Date:	05/31/2000
EPA Number:	Not reported
UIC Facility:	False
Admin Agent:	Pendleton Office
Last Action Date:	05/18/2001
Permit Writer:	131
Compliance Inspector:	556
DMR Reviewer:	131
Application Number:	994545
Class:	MINOR
Start Date:	10/27/1995
Region Decode:	East Region
Ownership:	PRIVATE
Permit Group:	WPCF General Permit - Domestic on-site sewage system
EPA Class:	N/A
Permit Number:	14759
Facility RID:	Not reported
Address 2:	Not reported
Program Name:	Not reported
Type Name:	Not reported
Facility Abbr. Name:	Not reported
Comments:	Not reported
Program Identifier:	Not reported
Permit RID:	Not reported
Ref Group Name:	Not reported
Permittee Name:	Not reported
Permit Status:	Not reported

Name:	ALL PHASE ELECTRIC SERVICE, INC.
Address:	61585 AMERICAN LOOP
City,State,Zip:	BEND, OR 97702
WQ File Nbr:	108819
Legal Name:	ALL PHASE ELECTRIC SERVICE, INC.
Region:	ER
Pri SIC:	1731
Latitude:	44.0361
Longitude:	-121.2913
Category:	DOMESTIC
Permit Type:	GEN51b
Permit Active:	False
Permit Description:	5102
Expiration Date:	05/31/2000
EPA Number:	Not reported
UIC Facility:	False
Admin Agent:	Pendleton Office
Last Action Date:	05/09/2000

AUTOBODY CONCEPTS INC (Continued) **1001203321**

Permit Writer:	131
Compliance Inspector:	131
DMR Reviewer:	131
Application Number:	994414
Class:	MINOR
Start Date:	10/27/1995
Region Decode:	East Region
Ownership:	PRIVATE
Permit Group:	WPCF General Permit - Domestic on-site sewage system
EPA Class:	N/A
Permit Number:	14820
Facility RID:	Not reported
Address 2:	Not reported
Program Name:	Not reported
Type Name:	Not reported
Facility Abbr. Name:	Not reported
Comments:	Not reported
Program Identifier:	Not reported
Permit RID:	Not reported
Ref Group Name:	Not reported
Permittee Name:	Not reported
Permit Status:	Not reported

OR UIC:

Name:	AUTOBODY CONCEPTS INC
Address:	61585 AMERICAN LOOP
City,State,Zip:	BEND, OR
UIC Well #:	1
Type:	5D2
Type Description:	Storm Water Drainage
UIC Number:	13241
Facility Status:	Registered & RA
Lat/Long:	44.0366 / -121.2915

B8 **NW WHEEL AND TIRE** **E MANIFEST** **1027848774**
WSW **61579 AMERICAN LOOP** **N/A**
< 1/8 **BEND, OR 97702**
0.057 mi.
301 ft. **Site 2 of 3 in cluster B**

Relative:
Higher

Actual:
3739 ft.

E MANIFEST:

Manifest Tracking Number:	007028224SKS
Last Updated Date:	20191205
Shipped Date:	20191030
Received Date:	20191115
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CESQG
Generator Name:	Nw Wheel And Tire
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61579 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported

NW WHEEL AND TIRE (Continued) **1027848774**

Generator Location Street 1:	61579 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	UTD981552177
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	PO Box 1339
Designated Facility Mail City:	Grantsville
Designated Facility Mail Zip:	84029
Designated Facility Mail State:	UT
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	PO Box 1339
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Grantsville
Designated Facility Location Zip:	84029
Designated Facility Location State:	UT
Designated Facility Contact Company Name:	Clean Harbors Aragonite LLC
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	007028224SKS
Waste Line Number:	1
Federal Waste Code:	D007
Federal Waste:	CHROMIUM

Manifest Tracking Number:	007028224SKS
Waste Line Number:	1
Federal Waste Code:	D026
Federal Waste:	CRESOL

Transporter:

Manifest Tracking Number:	007028224SKS
Transporter Line Number:	1
Transporter EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.

Manifest Tracking Number:	007028224SKS
Transporter Line Number:	2
Transporter EPA ID:	MAD039322250
Transporter Name:	Clean Harbors Environmental Services, Inc.

Manifest Tracking Number:	007028224SKS
Transporter Line Number:	3
Transporter EPA ID:	MAD039322250
Transporter Name:	Clean Harbors Environmental Services, Inc.

Manifest Tracking Number:	007028224SKS
Transporter Line Number:	4
Transporter EPA ID:	MAD039322250
Transporter Name:	Clean Harbors Environmental Services, Inc.

NW WHEEL AND TIRE (Continued) **1027848774**

Waste Line:

Manifest Tracking Number:	007028224SKS
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN2810
U.S. DOT Description:	Un2810, Waste Toxic Liquids, Organic, N.O.S (Chlorinated Hydrocarbons), 6.1, Pg Iii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	4
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	2000
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	1
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	1
Waste Quantity, in Kilograms:	907.03
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	907.03
Management Method Code:	H141
Management Method Description:	STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

B9 **RIVERCREST PAINTING** **RCRA NonGen / NLR** **1015748713**
WSW **61572 AMERICAN LOOP** **ORSTATE06456**
< 1/8 **BEND, OR 97702**
0.059 mi.
309 ft. **Site 3 of 3 in cluster B**

Relative:
Higher

Actual:
3743 ft.

RCRA Listings:

Date Form Received by Agency:	20060816
Handler Name:	Rivercrest Painting
Handler Address:	61572 American Loop
Handler City,State,Zip:	BEND, OR 97702
EPA ID:	ORSTATE06456
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10

RIVERCREST PAINTING (Continued) **1015748713**

Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	Not reported
Mailing City,State,Zip:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

RIVERCREST PAINTING (Continued) **1015748713**

Historic Generators:
- Receive Date: 20060816
- Handler Name: RIVERCREST PAINTING
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Codes: No NAICS Codes Found

Has the Facility Received Notices of Violations:
- Found Violation: No
- Agency Which Determined Violation: Not reported
- Violation Short Description: Not reported
- Date Violation was Determined: Not reported
- Actual Return to Compliance Date: Not reported
- Return to Compliance Qualifier: Not reported
- Violation Responsible Agency: Not reported
- Scheduled Compliance Date: Not reported
- Enforcement Identifier: Not reported
- Date of Enforcement Action: Not reported
- Enforcement Responsible Agency: Not reported
- Enforcement Docket Number: Not reported
- Enforcement Attorney: Not reported
- Corrective Action Component: Not reported
- Appeal Initiated Date: Not reported
- Appeal Resolution Date: Not reported
- Disposition Status Date: Not reported
- Disposition Status: Not reported
- Disposition Status Description: Not reported
- Consent/Final Order Sequence Number: Not reported
- Consent/Final Order Respondent Name: Not reported
- Consent/Final Order Lead Agency: Not reported
- Enforcement Type: Not reported
- Enforcement Responsible Person: Not reported
- Enforcement Responsible Sub-Organization: Not reported
- SEP Sequence Number: Not reported
- SEP Expenditure Amount: Not reported
- SEP Scheduled Completion Date: Not reported
- SEP Actual Date: Not reported
- SEP Defaulted Date: Not reported
- SEP Type: Not reported
- SEP Type Description: Not reported
- Proposed Amount: Not reported
- Final Monetary Amount: Not reported
- Paid Amount: Not reported
- Final Count: Not reported
- Final Amount: Not reported

RIVERCREST PAINTING (Continued) **1015748713**

Evaluation Action Summary:

Evaluation Date:	20060808
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

C10 **EXPRESSWAY STORE INC** **OR LUST** **U000437807**
East **1450 SE REED MARKET RD** **OR UST** **N/A**
< 1/8 **BEND, OR 97702** **OR AST**
0.077 mi. **OR AIRS**
406 ft. **Site 1 of 2 in cluster C** **OR HSIS**
OR UIC

Relative:
Higher

Actual:
3734 ft.

LUST:

Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD
City,State,Zip:	BEND, OR 97702
Region:	Eastern Region
Facility ID:	09-00-0008
Cleanup Received Date:	06/08/2000
Cleanup Start Date:	06/08/2000
Cleanup Complete Date:	**06/19/2000**
Decode for Region:	**East Region**

Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD
City,State,Zip:	BEND, OR 97702
Region:	Eastern Region
Facility ID:	09-22-0752
Cleanup Received Date:	09/22/2022
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**Not reported**
Decode for Region:	**East Region**

UST:

Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD
City:	BEND
Facility ID:	9785
Facility Telephone:	(541) 419-2199
Permittee Name:	Tom Healy
Number of Permitted Tanks:	4
Active Tanks:	4
Decommissioned Tanks:	3
Number of Tanks:	7

AST:

EXPRESSWAY STORE INC (Continued) **U000437807**

Facility ID:	44304
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD SE
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	THOMAS
Direct Site Phone:	5413890933
Report Class:	Annual
Report Year:	2020
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	Yes
Status:	Not reported
Nature of Business:	GAS STATION
NAICS Code:	447110
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	Yes
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

EXPRESSWAY STORE INC (Continued) **U000437807**

Facility ID:	44304
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD SE
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Daniel
Direct Site Phone:	5413890933
Report Class:	Annual
Report Year:	2023
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	Yes
Status:	ACTIVE
Nature of Business:	GAS STATION
NAICS Code:	447110
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	Yes
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

EXPRESSWAY STORE INC (Continued) **U000437807**

Facility ID:	44304
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD SE
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	THOMAS
Direct Site Phone:	5413890933
Report Class:	Annual
Report Year:	2017
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	Yes
Status:	Not reported
Nature of Business:	GAS STATION
NAICS Code:	447110
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	Yes
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

EXPRESSWAY STORE INC (Continued) **U000437807**

Facility ID:	44304
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD SE
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	THOMAS
Direct Site Phone:	5413890933
Report Class:	Annual
Report Year:	2018
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	Yes
Status:	Not reported
Nature of Business:	GAS STATION
NAICS Code:	447110
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	Yes
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

EXPRESSWAY STORE INC (Continued) **U000437807**

Facility ID:	44304
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD SE
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	THOMAS
Direct Site Phone:	5413890933
Report Class:	Annual
Report Year:	2019
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	Yes
Status:	Not reported
Nature of Business:	GAS STATION
NAICS Code:	447110
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	Yes
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

EXPRESSWAY STORE INC (Continued) **U000437807**

Facility ID:	44304
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD SE
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	THOMAS
Direct Site Phone:	5413890933
Report Class:	Annual(Revision)
Report Year:	2018
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	Yes
Status:	Not reported
Nature of Business:	GAS STATION
NAICS Code:	447110
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	Yes
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

EXPRESSWAY STORE INC (Continued) **U000437807**

Facility ID:	44304
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD SE
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	THOMAS
Direct Site Phone:	5413890933
Report Class:	Annual
Report Year:	2022
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	Yes
Status:	ACTIVE
Nature of Business:	GAS STATION
NAICS Code:	447110
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	Yes
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

EXPRESSWAY STORE INC (Continued) **U000437807**

AIRS:

Source ID:	Not reported
Permit Number:	09-0071-22-01
Address:	1450 SE REED MARKET RD.
Name:	EXPRESSWAY STORE, INC.
City,State,Zip:	BEND, OR 97702
Year:	Not reported
Permit Type:	General (5) ACDP
Expiration Date:	03/01/2025
Pollutant:	Not reported
Issue Date:	05/11/2021
Emissions:	Not reported
NAICS Code:	447110
Is NAICS Code Primary:	Not reported
SIC Code:	5541
Is SIC Code Primary:	Not reported
Latitude:	44.0371
Longitude:	-121.2841
Emission Source Code:	Not reported
Emission Source Description:	Not reported
Process Code:	Not reported
Process Description:	Not reported
Process Unit:	Not reported
SCC:	Not reported
Throughput:	Not reported
Throughput Type:	Not reported

HSIS:

Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET
City,State,Zip:	BEND, OR 97702
Facility ID:	044304
Department Or Division Of Company:	Not reported
Chemical Is Extremely Hazardous Substance (EHS:	N
Contains 112R:	N
Facility Has Written Emergency Plan:	N
NAICS Code 1:	447110
NAICS Desc 1:	GASOLINE STATIONS WITH CONVENIENCE STORES
NAICS Code 2:	000000
NAICS Desc 2:	Not reported
Manager Name:	THOMAS HEALY
Business Phone:	5413890933
Mailing Address:	1450 SE REED MARKET
Mailing City:	BEND
Mailing State:	OR
Mailing Zip:	97702
No. of Employees:	20
Day Phone:	5414192199
Placard:	Y
Fire Dept Code:	0024
FD:	BEND FD
Sprinkler System:	N
Emergency Contact:	TOM HEALY
Emergency Procedure:	Not reported
Business Type:	GAS STATION
Facility Type:	Not reported

EXPRESSWAY STORE INC (Continued) **U000437807**

Department:	Not reported
Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Status TRI:	Not reported
Status RMP:	Not reported
Status PSM:	Not reported
Status CR2K:	Not reported
Status 302:	Not reported
Owner Name:	Not reported
Last Reported ID:	Not reported
Maximum Daily Amount Range:	Not reported
Case Number:	Not reported
Chemical Name:	Not reported
EHS Name:	Not reported
Is Pure:	Not reported
Is Mix:	Not reported
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	Not reported
Maximum Daily Amount Unit:	Not reported
Chemical Added Date:	Not reported
Is Chem PSM:	Not reported
Is Chem 112R:	Not reported
Is Chem 302:	Not reported
Is Pesticide:	Not reported
Is Fertilizer:	Not reported
Physical State:	Not reported
UNNA Number:	Not reported
NFPA Health:	Not reported
NFPA Flammability:	Not reported
NFPA Reactivity:	Not reported
NFPA Special Notice:	Not reported
Hazards:	Not reported
Number of Days Onsite:	Not reported
Year:	Not reported

Case Number:	Not reported
Chemical Name:	Not reported
EHS Name:	Not reported
Is Pure:	Not reported
Is Mix:	Not reported
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	Not reported
Maximum Daily Amount Unit:	Not reported
Chemical Added Date:	Not reported
Is Chem PSM:	Not reported
Is Chem 112R:	Not reported
Is Chem 302:	Not reported
Is Pesticide:	Not reported
Is Fertilizer:	Not reported
Physical State:	Not reported
UNNA Number:	Not reported
NFPA Health:	Not reported
NFPA Flammability:	Not reported
NFPA Reactivity:	Not reported

EXPRESSWAY STORE INC (Continued) **U000437807**

NFPA Special Notice:	Not reported
Hazards:	Not reported
Number of Days Onsite:	Not reported
Year:	2018

Chemical:

Chemical Name:	PROPANE
Physical Description:	GAS
Case Number:	74986
Facility Id:	044304
Physical State Of The Substance:	3
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	A
Description:	ABOVEGROUND TANK
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	2
Pressure Description:	GREATER THAN NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	500-999
Description Of The Avg Qnty Code:	500-999
Most Hazardous Ingridient:	PROPANE
United Nations/north America 4 Digit Class Number:	1075
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON SDS
Substance Pure:	True
Substance Mix:	False
First Hazardous Class Code For Chemical:	Flammable Gas
Second Hazardous Class Code For Chemical:	Acute Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	2.1
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	N
EPA Pesticide Registration Number:	Not reported
Contains 112R:	N
Contains EHS:	N
Fertilizer:	N
Pesticide:	N
Contains 313:	N

OR UIC:

Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD

EXPRESSWAY STORE INC (Continued) **U000437807**

City,State,Zip: BEND, OR
UIC Well #: 1
Type: 5X28
Type Description: Motor Vehicle Waste Disposal Wells
UIC Number: 13243
Facility Status: Closure review
Lat/Long: 44.0374 / -121.2946

Name: EXPRESSWAY STORE INC
Address: 1450 SE REED MARKET RD
City,State,Zip: BEND, OR
UIC Well #: 2
Type: 5D3
Type Description: Storm Water Drill Holes/seepage Pits
UIC Number: 13243
Facility Status: Closure review
Lat/Long: 44.0374 / -121.2946

C11 **EXPRESSWAY STORE INC** **UST FINDER** **1028649256**
East **1450 SE REED MARKET RD** **UST FINDER RELEASE** **N/A**
< 1/8 **BEND, OR 97702**
0.077 mi.
406 ft. **Site 2 of 2 in cluster C**

Relative: **Higher**

Actual: **3734 ft.**

UST FINDER:

Object ID:	701740
Facility ID:	OR9785
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD
City,State,Zip:	BEND, OR 97702
Address Match Type:	PointAddress
Open USTs:	3
Closed USTs:	0
TOS USTs:	0
Population 1500ft:	594
Private Wells 1500ft:	0
Within 100yr Floodplain:	No
Land Use:	Developed, Low Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	Yes
WHPA PWS Facility ID:	OR4100697_2376
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	170703010805
Facility Status:	Open UST(s)
Date of Last Inspection:	Not reported
EPA Region:	10
Tribe:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.284913441
Y Coord:	44.037024504
Latitude:	44.0370245043278
Longitude:	-121.284913440562

EXPRESSWAY STORE INC (Continued) **1028649256**

UST FINDER:

Object ID:	1539550
Facility ID:	OR9785
Tank ID:	OR9785_3
Tank Status:	Open
Installation Date:	1987/08/03 16:00:00+00
Removal Date:	Not reported
Tank Capacity:	8000
Substances:	Diesel
Tank Wall Type:	Not reported

Object ID:	1539551
Facility ID:	OR9785
Tank ID:	OR9785_2
Tank Status:	Open
Installation Date:	1987/08/03 16:00:00+00
Removal Date:	Not reported
Tank Capacity:	10000
Substances:	Gasoline
Tank Wall Type:	Not reported

Object ID:	1539552
Facility ID:	OR9785
Tank ID:	OR9785_1
Tank Status:	Open
Installation Date:	1987/08/03 16:00:00+00
Removal Date:	Not reported
Tank Capacity:	10000
Substances:	Gasoline
Tank Wall Type:	Not reported

UST FINDER RELEASE:

Object ID:	339013
Facility ID:	Not reported
Lust ID:	OR17-94-0001
Name:	EXPRESSWAY STORE INC
Address:	1450 SE REED MARKET RD
City,State,Zip:	BEND, OR 97702
Address Match Type:	PointAddress
Reported Date:	1994/01/05 15:59:59+00
Status:	No Further Action
Substance:	Not reported
Population within 1500ft:	595
Domestic Wells within 1500ft:	0
Land Use:	Developed, Low Intensity
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	Yes
WHPA PWS Facility ID:	OR4100697_2376
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	170703010805

EXPRESSWAY STORE INC (Continued) **1028649256**

Within 100yr Floodplain:	No
Tribe:	Not reported
EPA Region:	10
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-121.28491
Y Coord:	44.0370300000001
Latitude:	44.03703
Longitude:	-121.284909999999

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12 **BLUE SKY VETERINARY CLINIC** **RCRA NonGen / NLR** **1015748226**
WSW **61575 AMERICAN LN** **ORSTATE04208**
< 1/8 **BEND, OR 97702**
0.085 mi.
449 ft.

Relative: **Higher**

Actual: **3738 ft.**

RCRA Listings:

Date Form Received by Agency:	20031030
Handler Name:	Blue Sky Veterinary Clinic
Handler Address:	61575 American Ln
Handler City,State,Zip:	BEND, OR 97702
EPA ID:	ORSTATE04208
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	Not reported
Mailing City,State,Zip:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No

BLUE SKY VETERINARY CLINIC (Continued) **1015748226**

Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20031030
Handler Name:	BLUE SKY VETERINARY CLINIC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported

BLUE SKY VETERINARY CLINIC (Continued) **1015748226**

Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20031015
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

D13 **HERITAGE CREATIONS** **RCRA NonGen / NLR** **1015748536**
WSW **61573 AMERICAN LOOP** **ORSTATE05978**
< 1/8 **BEND, OR 97702**
0.093 mi.
489 ft. **Site 1 of 3 in cluster D**

Relative:
Higher

Actual:
3740 ft.

RCRA Listings:

Date Form Received by Agency:	20051019
Handler Name:	Heritage Creations
Handler Address:	61573 American Loop

HERITAGE CREATIONS (Continued) **1015748536**

Handler City,State,Zip:	BEND, OR 97702
EPA ID:	ORSTATE05978
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	Not reported
Mailing City,State,Zip:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602

HERITAGE CREATIONS (Continued) **1015748536**

Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20051019
Handler Name: HERITAGE CREATIONS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number: Not reported	
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type: Not reported	
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number: Not reported	
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

HERITAGE CREATIONS (Continued) **1015748536**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20050330
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

D14 **PROCRAFT HERITAGE CREATIONS INC** **RCRA NonGen / NLR** **1005417988**
WSW **61573 AMERICAN LOOP** **FINDS** **ORQ000018333**
< 1/8 **BEND, OR 97702** **ECHO**
0.093 mi. **OR MANIFEST**
489 ft. **Site 2 of 3 in cluster D** **OR UIC**

Relative: **Higher**

Actual: **3740 ft.**

RCRA Listings:

Date Form Received by Agency:	20101231
Handler Name:	Procraft Heritage Creations Inc
Handler Address:	61573 American Loop
Handler City,State,Zip:	BEND, OR 97702
EPA ID:	ORQ000018333
Contact Name:	LEEPER FAITH
Contact Address:	61573 AMERICAN LOOP
Contact City,State,Zip:	BEND, OR 97702
Contact Telephone:	541-382-7691
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	61573 AMERICAN LOOP
Mailing City,State,Zip:	BEND, OR 97702
Owner Name:	Procraft Heritage Creation Inc
Owner Type:	Private
Operator Name:	Procraft Heritage Creation Inc

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PROCRAFT HERITAGE CREATION INC
Legal Status:	Private
Date Became Current:	20061230
Date Ended Current:	Not reported
Owner/Operator Address:	61573 AMERICAN LOOP
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-7691
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801
Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20051231
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801
Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20071231
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20081231
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20090109
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LP.
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20031231
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801
Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20061230
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20020311
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801
Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20031231
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20051231
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LP.
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20010711
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801
Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20030109
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801
Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20081231
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20061231

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20090109
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20041231
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801
Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20061231
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20061230
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20071231
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20061230
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20061230
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: ONE NAMIC PL
Owner/Operator City,State,Zip: GLEN FALLS, NY 12801
Owner/Operator Telephone: 800-220-7955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HERITAGE CREATIONS INC
Legal Status: Private
Date Became Current: 20041231
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LP.
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: PROCRAFT HERITAGE CREATION INC
Legal Status: Private
Date Became Current: 20061230
Date Ended Current: Not reported
Owner/Operator Address: 61573 AMERICAN LOOP
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-7691
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20101231
Handler Name: PROCRAFT HERITAGE CREATIONS INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010711
Handler Name: PROCRAFT
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020311
Handler Name: PROCRAFT
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20030109
Handler Name: PROCRAFT
Federal Waste Generator Description: Small Quantity Generator

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20031231
Handler Name: PROCRAFT
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20041231
Handler Name: PROCRAFT
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20051231
Handler Name: PROCRAFT
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20061231
Handler Name: PROCRAFT HERITAGE CREATIONS INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20061230
Handler Name: PROCRAFT HERITAGE CREATIONS INC
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20071231
Handler Name: PROCRAFT HERITAGE CREATIONS INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20081231
Handler Name: PROCRAFT HERITAGE CREATIONS INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20090109
Handler Name: PROCRAFT HERITAGE CREATIONS INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Receive Date: 20091231
Handler Name: PROCRAFT HERITAGE CREATIONS INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 337215
NAICS Description: SHOWCASE, PARTITION, SHELVING, AND LOCKER MANUFACTURING

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20080610
Actual Return to Compliance Date: 20080626
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20080718
Enforcement Identifier: 101
Date of Enforcement Action: 20080617
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20080610
Actual Return to Compliance Date:	20080626
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20080718
Enforcement Identifier:	101
Date of Enforcement Action:	20080617
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORJRI
Enforcement Responsible Sub-Organization:	ER
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20080610
Actual Return to Compliance Date:	20080626
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20080718
Enforcement Identifier:	101
Date of Enforcement Action:	20080617
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20080610
Actual Return to Compliance Date: 20080626
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20080718
Enforcement Identifier: 101
Date of Enforcement Action: 20080617
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Used Oil - Generators
Date Violation was Determined:	20080610
Actual Return to Compliance Date:	20080626
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20080718
Enforcement Identifier:	101
Date of Enforcement Action:	20080617
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORJRI
Enforcement Responsible Sub-Organization:	ER
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20080610
Actual Return to Compliance Date:	20080626
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20080718
Enforcement Identifier:	101
Date of Enforcement Action:	20080617
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20080610
Actual Return to Compliance Date: 20080626
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20080718
Enforcement Identifier: 101
Date of Enforcement Action: 20080617
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20080610
Actual Return to Compliance Date:	20080626
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20080718
Enforcement Identifier:	101
Date of Enforcement Action:	20080617
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORJRI
Enforcement Responsible Sub-Organization:	ER
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20080610
Actual Return to Compliance Date:	20080626
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20080718
Enforcement Identifier:	101
Date of Enforcement Action:	20080617
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20080610
Actual Return to Compliance Date: 20080626
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20080718
Enforcement Identifier: 101
Date of Enforcement Action: 20080617
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20080610
Actual Return to Compliance Date:	20080626
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20080718
Enforcement Identifier:	101
Date of Enforcement Action:	20080617
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORJRI
Enforcement Responsible Sub-Organization:	ER
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20080610
Actual Return to Compliance Date:	20080626
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20080718
Enforcement Identifier:	101
Date of Enforcement Action:	20080617
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20080610
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: ORJRI
Evaluation Responsible Sub-Organization: ER
Actual Return to Compliance Date: 20080626
Scheduled Compliance Date: 20080718
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20080610
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: ORJRI
Evaluation Responsible Sub-Organization: ER
Actual Return to Compliance Date: 20080626
Scheduled Compliance Date: 20080718
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20080610
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: ORJRI
Evaluation Responsible Sub-Organization: ER
Actual Return to Compliance Date: 20080626
Scheduled Compliance Date: 20080718
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Former Citation:	Not reported
Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20080610
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20080626
Scheduled Compliance Date:	20080718

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110012258270

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
The Department of Labor, Occupational Safety and Health Administration information system consists of inspection case detail for approximately 100,000 OSHA inspections conducted annually. The FRS dataset includes facilities that had inspections within the last 7 years within the mining, oil and gas, utilities, and manufacturing sectors.
The Oregon Department of Environmental Quality (DEQ) is a regulatory agency tasked with protecting the quality of Oregon's environment. DEQ uses a combination of technical assistance, inspections, and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1005417988
Registry ID:	110012258270
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012258270
Name:	BREEDLOVE GUITARS
Address:	61573 AMERICAN LOOP
City,State,Zip:	BEND, OR 97702

OR MANIFEST:

Manifest Year:	Manifest Year - 2009
EPA Id:	ORQ000018333
Inactive Status:	Not reported
Organization Name:	Not reported
Contact Name:	Leeper Faith
Contact Telephone Number:	Not reported
Mailing Address:	61573 American Loop
Mailing City/State/Zip:	Bend, OR 97702

Manifest:

Name:	PROCRAFT HERITAGE CREATIONS INC
Year :	2009
RCRA Id :	ORQ000018333
Inactive :	Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Status: Small quantity generator
Manifest : 002570704FLE
Ship Date : 04/07/2009
TSD : WADO58367152
WS Num: 1
Transporter: WAD058364647
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F003 F005
Waste Description: Spent paint related material
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1333.29
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1333.29

Manifest:
Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2008
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001740045FLE
Ship Date : 05/29/2008
TSD : WAD981769110
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F003 F005
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 573.67750000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 51.2455

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2008
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001740625FLE
Ship Date : 01/24/2008
TSD : WAD981769110
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F003 F005
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 573.67750000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 100.2235

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2008
RCRA Id : ORQ000018333
Inactive : Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Status: Small quantity generator
Manifest : 001740937FLE
Ship Date : 02/20/2008
TSD : WAD981769110
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F003 F005
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 573.67750000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 25.849499999999999

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2008
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001743608FLE
Ship Date : 07/24/2008
TSD : WAD981769110
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F003 F005
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 573.67750000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 101.1305

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2008
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001743752FLE
Ship Date : 08/07/2008
TSD : WAD981769110
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F003 F005
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 573.67750000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 25.849499999999999

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2008
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001745144FLE
Ship Date : 04/17/2008

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

TSD : WAD981769110
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F003 F005
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 573.67750000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 176.86500000000001

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2008
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 002261575FLE
Ship Date : 10/02/2008
TSD : WAD981769110
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F003 F005
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 573.67750000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 92.513999999999996

Manifest:
Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2007
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 000270652FLE
Ship Date : 01/11/2007
TSD : ORQ000018333
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F005 F035
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1731.24
Total Amt Of Waste Stream Generated in Reporting Yr 2: 384.33999999999997

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2007
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001323858JJK
Ship Date : 12/07/2007

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

TSD : ORQ000018333
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F005 F035
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1731.24
Total Amt Of Waste Stream Generated in Reporting Yr 2: 387.74000000000001

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2007
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001419269JJK
Ship Date : 04/10/2007
TSD : ORQ000018333
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F005 F035
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1731.24
Total Amt Of Waste Stream Generated in Reporting Yr 2: 377.54000000000002

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2007
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001419340JJK
Ship Date : 09/08/2007
TSD : ORQ000018333
WS Num: 1
Transporter: WAD981769110
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H020
EPA Waste Codes: D001 D035 F005 F035
Waste Description: Spent Paint and Related Materials
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1731.24
Total Amt Of Waste Stream Generated in Reporting Yr 2: 581.61000000000001

Manifest:
Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2006
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 001420276JJK
Ship Date : 10/26/2006

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 110
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2006
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 38860
Ship Date : 01/25/2006
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2006
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 46360
Ship Date : 03/22/2006
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 110
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2006
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 49690
Ship Date : 04/19/2006
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Ship Qty : 55
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT HERITAGE CREATIONS INC
Year : 2006
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 69650
Ship Date : 07/19/2006
TSD : IND000646943
WS Num: Not reported
Transporter: WAH000012450
Ship Qty : 110
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Manifest:
Name: PROCRAFT
Year : 2004
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 24888
Ship Date : 01/21/2004
TSD : IND000646943
WS Num: Not reported
Transporter: ORQ000018333
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT
Year : 2004
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 25433
Ship Date : 02/25/2004
TSD : IND000646943
WS Num: Not reported
Transporter: ORQ000018333

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Ship Qty : 55
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT
Year : 2004
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 25433
Ship Date : 03/30/2004
TSD : IND000646943
WS Num: Not reported
Transporter: ORQ000018333
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT
Year : 2004
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 26197
Ship Date : 04/07/2004
TSD : IND000646943
WS Num: Not reported
Transporter: ORQ000018333
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT
Year : 2004
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 27450
Ship Date : 06/23/2004
TSD : IND000646943
WS Num: Not reported
Transporter: ORQ000018333
Ship Qty : 110
Rpt Unit : GAL
Off Mng : H061

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT
Year : 2004
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 28170
Ship Date : 08/11/2004
TSD : IND000646943
WS Num: Not reported
Transporter: ORQ000018333
Ship Qty : 55
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Name: PROCRAFT
Year : 2004
RCRA Id : ORQ000018333
Inactive : Not reported
Status: Small quantity generator
Manifest : 29617
Ship Date : 11/03/2004
TSD : IND000646943
WS Num: Not reported
Transporter: ORQ000018333
Ship Qty : 110
Rpt Unit : GAL
Off Mng : H061
EPA Waste Codes: D001 D005 F003 F005 F035
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Manifest:
Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 20400
Ship Date : 04/05/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 20400
Ship Date : 04/05/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 20400
Ship Date : 04/05/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 20605
Ship Date : 04/15/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 20605
Ship Date : 04/15/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 20605
Ship Date : 04/15/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 21265IN
Ship Date : 08/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 21265IN
Ship Date : 08/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 21265IN
Ship Date : 08/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 21491
Ship Date : 06/11/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

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Name: PROCRAFT

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 21491
Ship Date : 06/11/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 21491
Ship Date : 06/11/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 21807560
Ship Date : 02/19/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Status: Small quantity generator
Manifest : 21807560
Ship Date : 02/19/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 21807560
Ship Date : 02/19/2003
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 22934
Ship Date : 09/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 22934
Ship Date : 09/13/2003

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 22934
Ship Date : 09/13/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 22934
Ship Date : 09/18/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Name: PROCRAFT
Year : 2003
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 22934
Ship Date : 09/18/2003
TSD : IND000646943
WS Num: 1
Transporter: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1717.291125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.810125

Manifest:
Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 101799
Ship Date : 09/24/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 139

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 101799
Ship Date : 09/24/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 139

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 101799
Ship Date : 09/24/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 139

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 597695
Ship Date : 01/02/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 573

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 597695
Ship Date : 01/02/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 573

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 597695
Ship Date : 01/02/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 573

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 644262
Ship Date : 08/20/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 188

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 644262
Ship Date : 08/20/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 188

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 644262
Ship Date : 08/20/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 188

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 661910
Ship Date : 04/29/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 382

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Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 661910
Ship Date : 04/29/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 382

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 661910
Ship Date : 04/29/2002
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 382

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 807383
Ship Date : 12/11/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 382

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 807383
Ship Date : 12/11/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 382

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 807383
Ship Date : 12/11/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 382

Name: PROCRAFT

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 807778
Ship Date : 07/30/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 191

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 807778
Ship Date : 07/30/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 191

Name: PROCRAFT
Year : 2002
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 807778
Ship Date : 07/30/2002
TSD : CAD980884183
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Lacquer thinner and paint Stain waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1414.92
Total Amt Of Waste Stream Generated in Reporting Yr 2: 191

Manifest:
Name: PROCRAFT

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

Year : 2001
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 578865
Ship Date : 08/08/2001
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Lacquer thinner waste, discarded stain in cans & stain soaked rags in cans
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1497.9105
Total Amt Of Waste Stream Generated in Reporting Yr 2: 925

Name: PROCRAFT
Year : 2001
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 578865
Ship Date : 08/08/2001
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Lacquer thinner waste, discarded stain in cans & stain soaked rags in cans
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1497.9105
Total Amt Of Waste Stream Generated in Reporting Yr 2: 925

Name: PROCRAFT
Year : 2001
RCRA Id : ORQ000018333
Inactive : 2010-12-31 00:00:00
Status: Small quantity generator
Manifest : 578865
Ship Date : 08/08/2001
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Lacquer thinner waste, discarded stain in cans & stain soaked rags in cans
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1497.9105
Total Amt Of Waste Stream Generated in Reporting Yr 2: 925

OR UIC:
Name: TWO OLD HIPPIES
Address: 61573 AMERICAN LOOP

PROCRAFT HERITAGE CREATIONS INC (Continued) **1005417988**

City,State,Zip: BEND, OR
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 14862
Facility Status: Registered & RA
Lat/Long: 44.0364 / -121.2933

Name: TWO OLD HIPPIES
Address: 61573 AMERICAN LOOP
City,State,Zip: BEND, OR
UIC Well #: 2
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 14862
Facility Status: Registered & RA
Lat/Long: 44.0364 / -121.2933

Name: TWO OLD HIPPIES
Address: 61573 AMERICAN LOOP
City,State,Zip: BEND, OR
UIC Well #: 3
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 14862
Facility Status: Registered & RA
Lat/Long: 44.0364 / -121.2933

Name: TWO OLD HIPPIES
Address: 61573 AMERICAN LOOP
City,State,Zip: BEND, OR
UIC Well #: 4
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 14862
Facility Status: Registered & RA
Lat/Long: 44.0364 / -121.2933

Name: TWO OLD HIPPIES
Address: 61573 AMERICAN LOOP
City,State,Zip: BEND, OR
UIC Well #: 5
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 14862
Facility Status: Registered & RA
Lat/Long: 44.0364 / -121.2933

D15
WSW
< 1/8
0.093 mi.
489 ft.

TWO OLD HIPPIES
61573 AMERICAN LOOP
BEND, OR 97702

Site 3 of 3 in cluster D

RCRA NonGen / NLR

1016455843
ORSTATE09396

Relative:
Higher

Actual:
3740 ft.

RCRA Listings:

Date Form Received by Agency:	20010711
Handler Name:	Two Old Hippies
Handler Address:	61573 American Loop
Handler City,State,Zip:	BEND, OR 97702-9406
EPA ID:	ORSTATE09396
Contact Name:	Not reported
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	Not reported
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	Not reported
Mailing City,State,Zip:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

TWO OLD HIPPIES (Continued) **1016455843**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20010711
Handler Name: TWO OLD HIPPIES	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

Has the Facility Received Notices of Violations:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported

TWO OLD HIPPIES (Continued) **1016455843**

Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20131218
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORBPA
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

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16 **CAR KARE INC** **OR AST** **S110282751**
WNW **1092 SE CENTENNIAL ST** **OR HSIS** **N/A**
1/8-1/4 **BEND, OR 97702**
0.131 mi.
691 ft.

Relative: **Lower**

Actual: **3725 ft.**

AST:

Facility ID:	10363
Name:	CAR KARE INC
Address:	1092 SE CENTENNIAL ST
City,State,Zip:	BEND, OR 977029403
Substance:	USED OIL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Car-Kare INC
Direct Site Phone:	5413824896
Report Class:	Annual
Report Year:	2020
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No

CAR KARE INC (Continued) **S110282751**

Is Explosive:	No
Status:	ACTIVE
Nature of Business:	REPAIR & GENERAL MECHANICS SHOP
NAICS Code:	811111
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

Facility ID:	10363
Name:	CAR KARE INC
Address:	1092 SE CENTENNIAL ST
City,State,Zip:	BEND, OR 977029403
Substance:	USED OIL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Car-Kare INC
Direct Site Phone:	5413824896
Report Class:	Annual
Report Year:	2017
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No

CAR KARE INC (Continued) **S110282751**

Is Explosive:	No
Status:	Not reported
Nature of Business:	REPAIR & GENERAL MECHANICS SHOP
NAICS Code:	811111
Maximum Daily Amount Code:	3
Maximum Daily Amount Code Range:	20-49
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

Facility ID:	10363
Name:	CAR KARE INC
Address:	1092 SE CENTENNIAL ST
City,State,Zip:	BEND, OR 977029403
Substance:	USED OIL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Car-Kare INC
Direct Site Phone:	5413824896
Report Class:	Annual
Report Year:	2018
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No

CAR KARE INC (Continued) **S110282751**

Is Explosive:	No
Status:	Not reported
Nature of Business:	REPAIR & GENERAL MECHANICS SHOP
NAICS Code:	811111
Maximum Daily Amount Code:	3
Maximum Daily Amount Code Range:	20-49
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

Facility ID:	10363
Name:	CAR KARE INC
Address:	1092 SE CENTENNIAL ST
City,State,Zip:	BEND, OR 977029403
Substance:	USED OIL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Car-Kare INC
Direct Site Phone:	5413824896
Report Class:	Annual
Report Year:	2019
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No

CAR KARE INC (Continued) **S110282751**

Is Explosive:	No
Status:	Not reported
Nature of Business:	REPAIR & GENERAL MECHANICS SHOP
NAICS Code:	811111
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

Facility ID:	10363
Name:	CAR KARE INC
Address:	1092 SE CENTENNIAL ST
City,State,Zip:	BEND, OR 977029403
Substance:	USED OIL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Car-Kare INC
Direct Site Phone:	5413824896
Report Class:	Annual(Revision)
Report Year:	2017
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No

CAR KARE INC (Continued) **S110282751**

Is Explosive:	No
Status:	Not reported
Nature of Business:	REPAIR & GENERAL MECHANICS SHOP
NAICS Code:	811111
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

Facility ID:	10363
Name:	CAR KARE INC
Address:	1092 SE CENTENNIAL ST
City,State,Zip:	BEND, OR 977029403
Substance:	USED OIL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Car-Kare INC
Direct Site Phone:	5413824896
Report Class:	Annual(Revision)
Report Year:	2018
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No

CAR KARE INC (Continued) **S110282751**

Is Explosive:	No
Status:	Not reported
Nature of Business:	REPAIR & GENERAL MECHANICS SHOP
NAICS Code:	811111
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

HSIS:

Name:	CAR KARE INC
Address:	1092 SE CENTENNIAL ST
City,State,Zip:	BEND, OR 977029403
Facility ID:	010363
Department Or Division Of Company:	Not reported
Chemical Is Extremely Hazardous Substance (EHS:	Not reported
Contains 112R:	Not reported
Facility Has Written Emergency Plan:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
Manager Name:	Not reported
Business Phone:	Not reported
Mailing Address:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported

CAR KARE INC (Continued) **S110282751**

Mailing Zip:	Not reported
No. of Employees:	Not reported
Day Phone:	Not reported
Placard:	Not reported
Fire Dept Code:	Not reported
FD:	BEND FD
Sprinkler System:	Not reported
Emergency Contact:	Not reported
Emergency Procedure:	Not reported
Business Type:	Not reported
Facility Type:	Private
Department:	THAT GUYS SHOP LLC
Status:	ACTIVE
Latitude:	44.0386
Longitude:	-121.293
Status TRI:	Active
Status RMP:	Active
Status PSM:	Active
Status CR2K:	Inactive
Status 302:	Active
Owner Name:	Car-Kare INC Bethe
Last Reported ID:	51557
Maximum Daily Amount Range:	Not reported
Case Number:	70514124
Chemical Name:	USED OIL
EHS Name:	Not reported
Is Pure:	No
Is Mix:	Yes
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Unit:	gal
Chemical Added Date:	03/06/2017
Is Chem PSM:	No
Is Chem 112R:	No
Is Chem 302:	No
Is Pesticide:	No
Is Fertilizer:	No
Physical State:	Liquid
UNNA Number:	N/A
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0
NFPA Special Notice:	N/A
Hazards:	Physical Combustive
Number of Days Onsite:	365
Year:	2019

Case Number:	Not reported
Chemical Name:	Not reported
EHS Name:	Not reported
Is Pure:	Not reported
Is Mix:	Not reported
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	Not reported
Maximum Daily Amount Unit:	Not reported

CAR KARE INC (Continued) **S110282751**

Chemical Added Date:	Not reported
Is Chem PSM:	Not reported
Is Chem 112R:	Not reported
Is Chem 302:	Not reported
Is Pesticide:	Not reported
Is Fertilizer:	Not reported
Physical State:	Not reported
UNNA Number:	Not reported
NFPA Health:	Not reported
NFPA Flammability:	Not reported
NFPA Reactivity:	Not reported
NFPA Special Notice:	Not reported
Hazards:	Not reported
Number of Days Onsite:	Not reported
Year:	Not reported

Case Number:	70514124
Chemical Name:	USED OIL
EHS Name:	Not reported
Is Pure:	No
Is Mix:	Yes
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	3
Maximum Daily Amount Unit:	gal
Chemical Added Date:	03/06/2017
Is Chem PSM:	No
Is Chem 112R:	No
Is Chem 302:	No
Is Pesticide:	No
Is Fertilizer:	No
Physical State:	Liquid
UNNA Number:	N/A
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0
NFPA Special Notice:	N/A
Hazards:	Physical Combustive
Number of Days Onsite:	365
Year:	2018

Chemical:

Chemical Name:	USED OIL
Physical Description:	LIQUID
Case Number:	70514124
Facility Id:	010363
Physical State Of The Substance:	2
Average Amount Possessed During The Year Code:	10
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	D
Description:	STEEL DRUM
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE

CAR KARE INC (Continued) **S110282751**

Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	500-999
Description Of The Avg Qnty Code:	200-499
Most Hazardous Ingridient:	LUBRCATING OILS USED
United Nations/north America 4 Digit Class Number:	0000
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON SDS
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Acute Health Hazard
Second Hazardous Class Code For Chemical:	Chronic Health Hazard
Third Hazardous Class Code For Chemical:	Combustible Material
Hazard Class 1 Of The Chemical:	6.3
Hazard Class 2 Of The Chemical:	6.4
Hazard Class 3 Of The Chemical:	4.5

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	N
EPA Pesticide Registration Number:	Not reported
Contains 112R:	N
Contains EHS:	N
Fertilizer:	N
Pesticide:	N
Contains 313:	N

E17 **NEWMAN PAINTING & PREFINISHING** **OR MANIFEST S109052221**
SW **61535 AMERICAN LANE** **OR UIC N/A**
1/8-1/4 **BEND, OR 97702**
0.145 mi.
767 ft. **Site 1 of 2 in cluster E**

Relative: Higher

Actual: 3739 ft.

OR MANIFEST:

Manifest Year:	Manifest Year - 2007
EPA Id:	ORQ000002303
Inactive Status:	Not reported
Organization Name:	Not reported
Contact Name:	Jerry L Newman
Contact Telephone Number:	(541) 388-8874
Mailing Address:	61535 American Ln
Mailing City/State/Zip:	Bend, OR 97702

Manifest:

Name:	NEWMAN PAINTING & PREFINISHING
Year :	1996
RCRA Id :	ORQ000002303
Inactive :	Not reported
Status:	Large quantity generator
Manifest :	47257

NEWMAN PAINTING & PREFINISHING (Continued) **S109052221**

Ship Date : 03/06/1996
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: D005
Waste Description: Water-base and oil based paints that were compromised due to fire at our sh
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2395
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2395

Name: NEWMAN PAINTING & PREFINISHING
Year : 1996
RCRA Id : ORQ000002303
Inactive : Not reported
Status: Large quantity generator
Manifest : 47257
Ship Date : 03/06/1996
TSD : TXD077603371
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M041
EPA Waste Codes: D009
Waste Description: Paints that were compromised due to fire at our shop
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2318
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2318

OR UIC:
Name: HULL-OAKES LUMBER CO.
Address: 23837 DAWSON RD
City,State,Zip: MONROE, OR 97456
UIC Well #: Not reported
Type: Not reported
Type Description: Not reported
UIC Number: 13242
Facility Status: Not reported
Lat/Long: 44.36 / -123.4111

Name: NP & P INC (DBA NEWMAN)
Address: 61535 AMERICAN LANE
City,State,Zip: BEND, OR
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 13242
Facility Status: Not a UIC
Lat/Long: 44.0345 / -121.2917

E18 **NEWMAN PAINTING INC** **RCRA-VSQG** **1001090951**
SW **61535 AMERICAN LANE** **FINDS** **ORQ000002303**
1/8-1/4 **BEND, OR 97702** **ECHO**
0.145 mi.
767 ft. **Site 2 of 2 in cluster E**

Relative: **Higher**

Actual: **3739 ft.**

RCRA Listings:

Date Form Received by Agency:	20080522
Handler Name:	Newman Brothers Painting
Handler Address:	61535 American Lane
Handler City,State,Zip:	BEND, OR 97702
EPA ID:	ORQ000002303
Contact Name:	JERRY L NEWMAN
Contact Address:	61535 AMERICAN LN
Contact City,State,Zip:	BEND, OR 97702
Contact Telephone:	541-388-8874
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	10
Land Type:	Private
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	61535 AMERICAN LN
Mailing City,State,Zip:	BEND, OR 97702
Owner Name:	Steve Newman
Owner Type:	Private
Operator Name:	Newman Brother'S Painting
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	Yes
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

NEWMAN PAINTING INC (Continued) **1001090951**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D005
Waste Description:	Barium
Waste Code:	D009
Waste Description:	Mercury

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status:	Private
Date Became Current:	19970414
Date Ended Current:	Not reported
Owner/Operator Address:	61535 AMERICAN LANE
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-388-8874
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status:	Private
Date Became Current:	19990201
Date Ended Current:	Not reported
Owner/Operator Address:	61535 AMERICAN LANE
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-388-8874
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status:	Private
Date Became Current:	20010216
Date Ended Current:	Not reported
Owner/Operator Address:	61535 AMERICAN LANE
Owner/Operator City,State,Zip:	BEND, OR 97702

NEWMAN PAINTING INC (Continued) **1001090951**

Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20010216
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20020107
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20021227
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20071231
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 19960222

NEWMAN PAINTING INC (Continued) **1001090951**

Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 19970414
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20071231
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 19981207
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20021227
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner

NEWMAN PAINTING INC (Continued) **1001090951**

Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20020107
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20031231
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 19981207
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 19990201
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20000118
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: STEVE NEWMAN
Legal Status: Private
Date Became Current: 19960222
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 19960222
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20000118
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: N P & P INC DBA NEWMAN PAINTING & PREFIN
Legal Status: Private
Date Became Current: 20031231
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NEWMAN BROTHER'S PAINTING
Legal Status: Private
Date Became Current: 20080522
Date Ended Current: Not reported
Owner/Operator Address: 61535 AMERICAN LANE
Owner/Operator City,State,Zip: BEND, OR 97702

NEWMAN PAINTING INC (Continued) **1001090951**

Owner/Operator Telephone: 541-388-8874
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19960222
Handler Name: NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970414
Handler Name: NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19981207
Handler Name: NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990201
Handler Name: NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Receive Date:	20000118
Handler Name:	NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20010216
Handler Name:	NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020107
Handler Name:	NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20021227
Handler Name:	NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20031231
Handler Name:	NEWMAN PAINTING & PREFINISHING
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No

NEWMAN PAINTING INC (Continued) **1001090951**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20071231
Handler Name:	NEWMAN BROTHERS PAINTING
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20080522
Handler Name:	NEWMAN BROTHERS PAINTING
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	23832
NAICS Description:	PAINTING AND WALL COVERING CONTRACTORS

Has the Facility Received Notices of Violations:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060711
Actual Return to Compliance Date:	20061003
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060821
Enforcement Identifier:	101
Date of Enforcement Action:	20060714
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20060711
Actual Return to Compliance Date: 20061003
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20060821
Enforcement Identifier: 101
Date of Enforcement Action: 20060714
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Listing - General
Date Violation was Determined:	20060711
Actual Return to Compliance Date:	20061003
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060821
Enforcement Identifier:	101
Date of Enforcement Action:	20060714
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORJRI
Enforcement Responsible Sub-Organization:	ER
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060711
Actual Return to Compliance Date:	20061003
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060821
Enforcement Identifier:	101
Date of Enforcement Action:	20060714
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19990426
Actual Return to Compliance Date: 19990630
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 19990630
Enforcement Identifier: 000
Date of Enforcement Action: 19990519
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: OR
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060711
Actual Return to Compliance Date:	20061003
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060821
Enforcement Identifier:	101
Date of Enforcement Action:	20060714
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORJRI
Enforcement Responsible Sub-Organization:	ER
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19990426
Actual Return to Compliance Date:	19990630
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	19990630
Enforcement Identifier:	000
Date of Enforcement Action:	19990519
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	OR
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20060711
Actual Return to Compliance Date: 20061003
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20060821
Enforcement Identifier: 101
Date of Enforcement Action: 20060714
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060711
Actual Return to Compliance Date:	20061003
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060821
Enforcement Identifier:	101
Date of Enforcement Action:	20060714
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person:	ORJRI
Enforcement Responsible Sub-Organization:	ER
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060711
Actual Return to Compliance Date:	20061003
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20060821
Enforcement Identifier:	101
Date of Enforcement Action:	20060714
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20060711
Actual Return to Compliance Date: 20061003
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20060821
Enforcement Identifier: 101
Date of Enforcement Action: 20060714
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: NOTICE OF NONCOMPLIANCE
Enforcement Responsible Person: ORJRI
Enforcement Responsible Sub-Organization: ER
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

NEWMAN PAINTING INC (Continued) **1001090951**

Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003
Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003
Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003
Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003
Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19990426
Evaluation Responsible Agency:	State

NEWMAN PAINTING INC (Continued) **1001090951**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	19990630
Scheduled Compliance Date:	19990630
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003
Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19990426
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	19990630
Scheduled Compliance Date:	19990630
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003
Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003

NEWMAN PAINTING INC (Continued) **1001090951**

Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003
Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060711
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier:	ORJRI
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	20061003
Scheduled Compliance Date:	20060821
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110014267925

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
The Oregon Department of Environmental Quality (DEQ) is a regulatory agency tasked with protecting the quality of Oregon's environment. DEQ uses a combination of technical assistance, inspections, and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1001090951
Registry ID: 110014267925

NEWMAN PAINTING INC (Continued) **1001090951**

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110014267925
Name: NEWMAN PAINTING INC
Address: 61535 AMERICAN LANE
City,State,Zip: BEND, OR 97702

19
NNW
1/8-1/4
0.171 mi.
905 ft.

PACIFIC LUMBER
1006 SE 9TH ST
BEND, OR 97702

OR ECSI **S106770478**
OR UIC **N/A**

Relative:
Lower

Actual:
3725 ft.

ECSI:
Name: PACIFIC LUMBER
Address: 1006 SE 9TH ST
City,State,Zip: BEND, OR 97702
State ID Number: 5667
Brown ID: 0
Study Area: False
Region ID: 1
Legislatve ID: 0
Investigation: Suspect
FACA ID: 34126
Further Action: 0
Lat/Long (dms): 44 2 23.30 / -121 17 21.80
County Code: 9.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 18.00
Township Zone: S
Range Coord: 12.00
Range Zone: E
Section Coord: 4
Qtr Section: D
Tax Lots: 1101, 1102,1701
Size: ~ 4 acres
NPL: False
Orphan: False
Updated By: KDAUGHE
Update Date: 07/13/2023
Created Date: 11/03/2011
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: Universal Forest Products - Western Div.

Narrative:
NARR ID: 5753679
NARR Code: Contamination
Created By: DCROUSE
Created Date: 11/03/2011
Updated By: DCROUSE
Updated Date: 11/03/2011
Decode for NarcdID: Contamination
NARR Comments: (11/3/11 DMC/SAS) Site is a former mill that is currently not in use.

NARR ID: 5753680

PACIFIC LUMBER (Continued) **S106770478**

NARR Code: Data Sources
Created By: DCROUSE
Created Date: 11/03/2011
Updated By: DCROUSE
Updated Date: 11/03/2011
Decode for NarcdID: Data Sources
NARR Comments: 1. DMC/SAS driveby (11/2/11). 2. AQ TRAACS.

NARR ID: 5753681
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 11/03/2011
Updated By: DCROUSE
Updated Date: 11/03/2011
Decode for NarcdID: Remedial Action
NARR Comments: (11/3/11 DMC/SAS) Site screening recommended.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 11/03/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/03/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 11/03/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/03/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135881
Operation Status: Inactive
Common Name: Pacific Lumber
Yrs of Operation: Not reported
Comments: Former lumber mill.
Updated Date: 11/03/2011
Updated By: DCROUSE
Decode for OpstatID: Inactive
Operations SIC Id: 199330
SIC Code: 2421
Created By: DCROUSE

PACIFIC LUMBER (Continued) **S106770478**

Created Date: 11/03/2011

OR UIC:
Name: PACIFIC LUMBER & TRUSS
Address: 1006 SE 9TH ST.
City,State,Zip: BEND, OR
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 10098
Facility Status: Registered & not RA
Lat/Long: 44.0398 / -121.2891

Name: PACIFIC LUMBER & TRUSS
Address: 1006 SE 9TH ST.
City,State,Zip: BEND, OR
UIC Well #: 2
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 10098
Facility Status: Registered & not RA
Lat/Long: 44.0398 / -121.2891

Name: PACIFIC LUMBER & TRUSS
Address: 1006 SE 9TH ST.
City,State,Zip: BEND, OR
UIC Well #: 3
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 10098
Facility Status: Registered & not RA
Lat/Long: 44.0398 / -121.2891

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20 **BRIANS CABINETS** **RCRA-VSQG** **1004771584**
SW **61527 AMERICAN LOOP STE 101** **FINDS** **ORQ000011072**
1/8-1/4 **BEND, OR 97702** **ECHO**
0.202 mi. **E MANIFEST**
1068 ft. **CA HAZNET**
OR MANIFEST

Relative:
Higher

Actual:
3744 ft.

RCRA Listings:
Date Form Received by Agency: 20101231
Handler Name: Brians Cabinets
Handler Address: 61527 American Loop Ste 101
Handler City,State,Zip: BEND, OR 97702
EPA ID: ORQ000011072
Contact Name: SUSAN SCALES
Contact Address: 61527 AMERICAN LP
Contact City,State,Zip: BEND, OR 97702
Contact Telephone: 541-382-3773
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 10
Land Type: Private
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Non-Notifier: Not reported

BRIANS CABINETS (Continued) **1004771584**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	61527 AMERICAN LOOP #101
Mailing City,State,Zip:	BEND, OR 97702
Owner Name:	Hakala Manufacturing Inc. Dba Brian'S Ca
Owner Type:	Private
Operator Name:	Brian'S Cabinets
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140602
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	Ignitable Waste

BRIANS CABINETS (Continued) **1004771584**

Waste Code: F003
Waste Description: The Following Spent Nonhalogenated Solvents: Xylene, Acetone, Ethyl Acetate, Ethyl Benzene, Ethyl Ether, Methyl Isobutyl Ketone, N-Butyl Alcohol, Cyclohexanone, And Methanol; All Spent Solvent Mixtures/Blends Containing, Before Use, Only The Above Spent Nonhalogenated Solvents; And All Spent Solvent Mixtures/Blends Containing, Before Use, One Or More Of The Above Nonhalogenated Solvents, And A Total Of Ten Percent Or More (By Volume) Of One Or More Of Those Solvents Listed In F001, F002, F004, And F005; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: F005
Waste Description: The Following Spent Nonhalogenated Solvents: Toluene, Methyl Ethyl Ketone, Carbon Disulfide, Isobutanol, Pyridine, Benzene, 2-Ethoxyethanol, And 2-Nitropropane; All Spent Solvent Mixtures/Blends Containing, Before Use, A Total Of Ten Percent Or More (By Volume) Of One Or More Of The Above Nonhalogenated Solvents Or Those Solvents Listed In F001, F002, Or F004; And Still Bottoms From The Recovery Of These Spent Solvents And Spent Solvent Mixtures.

Waste Code: NONE
Waste Description: Not Defined

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: BRIAN OPDYCKE
Legal Status: Private
Date Became Current: 20000131
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BRIAN'S CABINETS
Legal Status: Other
Date Became Current: 20020301
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HAKALA MANUFACTURING INC. DBA BRIAN'S CA
Legal Status: Private
Date Became Current: 20061231
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773

BRIANS CABINETS (Continued) **1004771584**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BRIAN'S CABINETS
Legal Status: Private
Date Became Current: 20061231
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BRIAN'S CABINETS
Legal Status: Private
Date Became Current: 20090722
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HAKALA MANUFACTURING INC. DBA BRIAN'S CA
Legal Status: Private
Date Became Current: 20030601
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HAKALA MANUFACTURING INC. DBA BRIAN'S CA
Legal Status: Private
Date Became Current: 20041231
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BRIAN'S CABINETS
Legal Status: Private
Date Became Current: 20030601
Date Ended Current: Not reported

BRIANS CABINETS (Continued) **1004771584**

Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HAKALA MANUFACTURING INC. DBA BRIAN'S CA
Legal Status: Private
Date Became Current: 19990127
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: BRIAN OPDYCKE
Legal Status: Private
Date Became Current: 20010416
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: BRIAN OPDYCKE
Legal Status: Private
Date Became Current: 20020301
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BRIAN'S CABINETS
Legal Status: Private
Date Became Current: 20041231
Date Ended Current: Not reported
Owner/Operator Address: 61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip: BEND, OR 97702
Owner/Operator Telephone: 541-382-3773
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: HAKALA MANUFACTURING INC. DBA BRIAN'S CA

BRIANS CABINETS (Continued) **1004771584**

Legal Status:	Private
Date Became Current:	20051231
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: BRIAN'S CABINETS	
Legal Status:	Private
Date Became Current:	20101231
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: BRIAN'S CABINETS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: BRIAN'S CABINETS	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: BRIAN'S CABINETS	
Legal Status:	Private
Date Became Current:	20051231
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

BRIANS CABINETS (Continued) **1004771584**

Owner/Operator Indicator:	Owner
Owner/Operator Name: BRIAN OPDYCKE	
Legal Status:	Private
Date Became Current:	19990127
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: BRIAN'S CABINETS	
Legal Status:	Other
Date Became Current:	20030106
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: BRIAN OPDYCKE	
Legal Status:	Private
Date Became Current:	20030106
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: HAKALA MANUFACTURING INC. DBA BRIAN'S CA	
Legal Status:	Private
Date Became Current:	19990127
Date Ended Current:	Not reported
Owner/Operator Address:	61527 AMERICAN LP STE 101
Owner/Operator City,State,Zip:	BEND, OR 97702
Owner/Operator Telephone:	541-382-3773
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19990127
Handler Name: BRIANS CABINETS	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

BRIANS CABINETS (Continued) **1004771584**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20000131
Handler Name: BRIANS CABINETS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20010416
Handler Name: BRIANS CABINETS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020301
Handler Name: BRIANS CABINETS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20030106
Handler Name: BRIANS CABINETS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

BRIANS CABINETS (Continued) **1004771584**

Receive Date:	20030601
Handler Name: BRIANS CABINETS	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20041231
Handler Name: BRIANS CABINETS	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20051231
Handler Name: BRIANS CABINETS	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20061231
Handler Name: BRIANS CABINETS	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20090722
Handler Name: BRIANS CABINETS	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No

BRIANS CABINETS (Continued) **1004771584**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20101231
Handler Name: BRIANS CABINETS
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 33711
NAICS Description: WOOD KITCHEN CABINET AND COUNTERTOP MANUFACTURING

Has the Facility Received Notices of Violations:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

BRIANS CABINETS (Continued) **1004771584**

SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20010301
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION
Evaluation Responsible Person Identifier: ORJRI
Evaluation Responsible Sub-Organization: ER
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported

BRIANS CABINETS (Continued) **1004771584**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20020715
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier:	ORJDM
Evaluation Responsible Sub-Organization:	ER
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110004817244

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
The Oregon Department of Environmental Quality (DEQ) is a regulatory agency tasked with protecting the quality of Oregon's environment. DEQ uses a combination of technical assistance, inspections, and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004771584
Registry ID:	110004817244
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110004817244
Name:	BRIANS CABINETS
Address:	61527 AMERICAN LOOP STE 101
City,State,Zip:	BEND, OR 97702

E MANIFEST:

Manifest Tracking Number:	011894804FLE
Last Updated Date:	20181031
Shipped Date:	20180919
Received Date:	20181005
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets

BRIANS CABINETS (Continued) **1004771584**

Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	015158089FLE
Last Updated Date:	20200923
Shipped Date:	20200827
Received Date:	20200903
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Brians Cabinets
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported

BRIANS CABINETS (Continued) **1004771584**

Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	015159589FLE
Last Updated Date:	20201106
Shipped Date:	20201008
Received Date:	20201017
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Brians Cabinets
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	011623847FLE
Last Updated Date:	20190118
Shipped Date:	20181205

BRIANS CABINETS (Continued) **1004771584**

Received Date:	20181221
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	011624236FLE
Last Updated Date:	20181129
Shipped Date:	20181017
Received Date:	20181102
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702

BRIANS CABINETS (Continued) **1004771584**

Generator Location State:	OR
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	013508980FLE
Last Updated Date:	20190626
Shipped Date:	20190515
Received Date:	20190530
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported

BRIANS CABINETS (Continued) **1004771584**

Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	012892931FLE
Last Updated Date:	20190325
Shipped Date:	20190130
Received Date:	20190223
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	014736695FLE
Last Updated Date:	20200727
Shipped Date:	20200617
Received Date:	20200707
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR

BRIANS CABINETS (Continued) **1004771584**

Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Brians Cabinets
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	014486154FLE
Last Updated Date:	20200513
Shipped Date:	20200219
Received Date:	20200310
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Brians Cabinets
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported

BRIANS CABINETS (Continued) **1004771584**

Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	014487512FLE
Last Updated Date:	20200518
Shipped Date:	20200415
Received Date:	20200428
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072
Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Brians Cabinets
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	013507811FLE
Last Updated Date:	20190507
Shipped Date:	20190327
Received Date:	20190411
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	ORQ000011072

BRIANS CABINETS (Continued) **1004771584**

Generator Name:	Brians Cabinets
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	61527 AMERICAN LOOP
Generator Mail Street 2:	Not reported
Generator Mail City:	BEND
Generator Mail State:	OR
Generator Mail Zip:	97702
Generator Location Street Number:	Not reported
Generator Location Street 1:	61527 American Loop
Generator Location Street 2:	Not reported
Generator Location City:	Bend
Generator Location Zip:	97702
Generator Location State:	OR
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	NED981723513
Designated Facility Name:	Clean Harbors Environmental Services, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2247 South Highway 71
Designated Facility Mail City:	Kimball
Designated Facility Mail Zip:	69145
Designated Facility Mail State:	NE
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2247 South Highway 71
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Kimball
Designated Facility Location Zip:	69145
Designated Facility Location State:	NE
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Federal Waste:

Manifest Tracking Number:	013591801FLE
Waste Line Number:	1
Federal Waste Code:	D035
Federal Waste:	METHYL ETHYL KETONE

Manifest Tracking Number:	013591801FLE
Waste Line Number:	1
Federal Waste Code:	F003
Federal Waste:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Manifest Tracking Number:	013591801FLE
Waste Line Number:	1
Federal Waste Code:	F005
Federal Waste:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE,

BRIANS CABINETS (Continued) **1004771584**

2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Transporter:

Manifest Tracking Number:	013591801FLE
Transporter Line Number:	1
Transporter EPA ID:	MAD039322250
Transporter Name:	Clean Harbors Environmental Services, Inc.

Manifest Tracking Number:	013591801FLE
Transporter Line Number:	2
Transporter EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.

Manifest Tracking Number:	013591801FLE
Transporter Line Number:	3
Transporter EPA ID:	MOD095038998
Transporter Name:	Bed Rock Inc Dba Tri State Motor Transit Co

Manifest Tracking Number:	013591801FLE
Transporter Line Number:	4
Transporter EPA ID:	MOD095038998
Transporter Name:	Bed Rock Inc Dba Tri State Motor Transit Co

Waste Line:

Manifest Tracking Number:	013591801FLE
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	UN3175
U.S. DOT Description:	Un3175, Waste Solids Containing Flammable Liquid, N.O.S. (Tolueneand Acetone Still Bottoms), 4.1, Pg Ii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	4
Container Type Code:	DM
Container Type Description:	Metal drums, barrels, kegs
Waste Quantity:	2400
Quantity Unit of Measure Code:	P
Quantity Unit of Measure Description:	Pounds
Waste Quantity, in Tons:	1.2
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	1.2
Waste Quantity, in Kilograms:	1088.436
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	1088.436
Management Method Code:	H040
Management Method Description:	INCINERATION
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported

BRIANS CABINETS (Continued) **1004771584**

Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Click this hyperlink while viewing on your computer to access
6 additional US EManifest: record(s) in the EDR Site Report.

HAZNET:

Name:	BRIANS CABINETS
Address:	61527 AMERICAN LOOP STE 101
Address 2:	Not reported
City,State,Zip:	BEND, OR 97702
Contact:	EMILY CHAFFIN/ SUSAN SCALES
Telephone:	5413823773
Mailing Name:	Not reported
Mailing Address:	61527 AMERICAN LOOP STE 101
Year:	2002
Gepaid:	ORQ000011072
TSD EPA ID:	CAD980884183
CA Waste Code:	352 - Other organic solids
Disposal Method:	D99 - Disposal, Other
Tons:	0.2
Year:	2002
Gepaid:	ORQ000011072
TSD EPA ID:	CAD980884183
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	D99 - Disposal, Other
Tons:	0.7923
Year:	2001
Gepaid:	ORQ000011072
TSD EPA ID:	CAD980884183
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	D99 - Disposal, Other
Tons:	0.187

Additional Information:

Year:	2002
Gen EPA ID:	ORQ000011072
Shipment Date:	20021211
Creation Date:	3/31/2003 18:31:15
Receipt Date:	20021230
Manifest ID:	21807392
Trans EPA ID:	WAH000012450
Trans Name:	Not reported
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183

BRIANS CABINETS (Continued) **1004771584**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.1668
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020912
Creation Date:	1/28/2003 18:31:46
Receipt Date:	20020930
Manifest ID:	21807892
Trans EPA ID:	WAH000012450
Trans Name:	Not reported
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020717
Creation Date:	1/21/2003 18:30:55
Receipt Date:	20020726
Manifest ID:	21807738
Trans EPA ID:	WAH000012450
Trans Name:	Not reported
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P

BRIANS CABINETS (Continued) **1004771584**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020522
Creation Date:	7/19/2002 15:57:28
Receipt Date:	20020603
Manifest ID:	99101966
Trans EPA ID:	WAH000012450
Trans Name:	Not reported
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020522
Creation Date:	7/19/2002 15:57:28
Receipt Date:	20020603
Manifest ID:	99101966
Trans EPA ID:	WAH000012450
Trans Name:	Not reported
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	F003
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020220
Creation Date:	7/8/2002 18:31:16
Receipt Date:	20010302

BRIANS CABINETS (Continued) **1004771584**

Manifest ID:	21293379
Trans EPA ID:	WAH000012450
Trans Name:	Not reported
Trans 2 EPA ID:	MOD095038998
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.1668
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2001
Gen EPA ID:	ORQ000011072
Shipment Date:	20011023
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011106
Manifest ID:	21293251
Trans EPA ID:	WAH000012450
Trans Name:	Not reported
Trans 2 EPA ID:	CAR000094664
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD980884183
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	D001
Meth Code:	D99 - Disposal, Other
Quantity Tons:	0.187
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

OR MANIFEST:

Manifest Year:	Manifest Year - 2006
EPA Id:	ORQ000011072
Inactive Status:	Not reported
Organization Name:	Not reported
Contact Name:	Susan Scales
Contact Telephone Number:	541 382-3773

BRIANS CABINETS (Continued) **1004771584**

Mailing Address: 61527 American Lp Ste 101
Mailing City/State/Zip: Bend, OR 97702

Manifest:
Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 10552
Ship Date : 01/25/2001
TSD : WAD981769110
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stain and lacquer waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 562
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 10552
Ship Date : 01/25/2001
TSD : WAD981769110
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquer waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 562
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 12299
Ship Date : 05/16/2001
TSD : WAD981769110
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061

BRIANS CABINETS (Continued) **1004771584**

EPA Waste Codes: F003
Waste Description: Stain and lacquer waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 562
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 12299
Ship Date : 05/16/2001
TSD : WAD981769110
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquer waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 562
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 13353
Ship Date : 07/25/2001
TSD : ARD069748192
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M043
EPA Waste Codes: D001
Waste Description: Stained rags
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1007
Total Amt Of Waste Stream Generated in Reporting Yr 2: 363

Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 13870
Ship Date : 09/12/2001
TSD : ARD069748192
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M043
EPA Waste Codes: D001
Waste Description: Stained rags
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1007

BRIANS CABINETS (Continued) **1004771584**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 145

Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 51638
Ship Date : 10/23/2001
TSD : ARD069748192
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M043
EPA Waste Codes: D001
Waste Description: Stained rags
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1007
Total Amt Of Waste Stream Generated in Reporting Yr 2: 181

Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 51639
Ship Date : 10/23/2001
TSD : WAD981769110
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stain and lacquer waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 562
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: BRIANS CABINETS
Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 51639
Ship Date : 10/23/2001
TSD : WAD981769110
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquer waste
Total Amt Of Waste Stream Generated in Reporting Yr 1: 562
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: BRIANS CABINETS

BRIANS CABINETS (Continued) **1004771584**

Year : 2001
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Conditionally exempt generator
Manifest : 51697
Ship Date : 11/27/2001
TSD : ARD069748192
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M043
EPA Waste Codes: D001
Waste Description: Stained rags
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1007
Total Amt Of Waste Stream Generated in Reporting Yr 2: 317

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42 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 297956
Ship Date : 05/10/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 621

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 297956
Ship Date : 05/10/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385

BRIANS CABINETS (Continued) **1004771584**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 621

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 297956
Ship Date : 05/10/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 621

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 41707
Ship Date : 07/13/2000
TSD : FCCANADA
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 619

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 41707
Ship Date : 07/13/2000
TSD : FCCANADA
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 619

Name: BRIANS CABINETS

BRIANS CABINETS (Continued) **1004771584**

Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 41707
Ship Date : 07/13/2000
TSD : FCCANADA
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 619

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 445023
Ship Date : 09/06/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 603

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 445023
Ship Date : 09/06/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 603

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported

BRIANS CABINETS (Continued) **1004771584**

Status: Small quantity generator
Manifest : 445023
Ship Date : 09/06/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 603

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 445065
Ship Date : 11/08/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 415

Click this hyperlink while viewing on your computer to access
42 additional OR_MANIFEST: record(s) in the EDR Site Report.

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 445065
Ship Date : 11/08/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 415

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported

BRIANS CABINETS (Continued) **1004771584**

Status: Small quantity generator
Manifest : 445065
Ship Date : 11/08/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 415

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 984225
Ship Date : 01/26/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 578

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 984225
Ship Date : 01/26/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 578

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 984225
Ship Date : 01/26/2000

BRIANS CABINETS (Continued) **1004771584**

TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 578

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 984259
Ship Date : 03/15/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 363

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 984259
Ship Date : 03/15/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 363

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 984259
Ship Date : 03/15/2000
TSD : TXD077603371
WS Num: 1
Transporter: Not reported

BRIANS CABINETS (Continued) **1004771584**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 363

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 99988
Ship Date : 12/13/2000
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Name: BRIANS CABINETS
Year : 2000
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 99988
Ship Date : 12/13/2000
TSD : WAD981769110
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stanin & lacquer waste: rags.
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3385
Total Amt Of Waste Stream Generated in Reporting Yr 2: 187

Manifest:
Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82580
Ship Date : 04/21/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported

BRIANS CABINETS (Continued) **1004771584**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 224

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82580
Ship Date : 04/21/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 224

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82580
Ship Date : 04/21/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 224

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82581
Ship Date : 02/25/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061

BRIANS CABINETS (Continued) **1004771584**

EPA Waste Codes: D001
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 288

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82581
Ship Date : 02/25/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 288

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82581
Ship Date : 02/25/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 288

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82748
Ship Date : 01/01/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020

BRIANS CABINETS (Continued) **1004771584**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 204

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82748
Ship Date : 01/01/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 204

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 82748
Ship Date : 01/01/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 204

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 83882
Ship Date : 12/02/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 363

BRIANS CABINETS (Continued) **1004771584**

Click this hyperlink while viewing on your computer to access
42 additional OR_MANIFEST: record(s) in the EDR Site Report.

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 83882
Ship Date : 12/02/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 363

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 83882
Ship Date : 12/02/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 363

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 88452
Ship Date : 08/11/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 297

BRIANS CABINETS (Continued) **1004771584**

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 88452
Ship Date : 08/11/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 297

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 88452
Ship Date : 08/11/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 297

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 88452
Ship Date : 10/08/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 374

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072

BRIANS CABINETS (Continued) **1004771584**

Inactive : Not reported
Status: Small quantity generator
Manifest : 88452
Ship Date : 10/08/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F003
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 374

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 88452
Ship Date : 10/08/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: F005
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 374

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 89465
Ship Date : 06/18/1999
TSD : ILD980613913
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : M061
EPA Waste Codes: D001
Waste Description: Stain and lacquor waste, Rags, primary
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 269

Name: BRIANS CABINETS
Year : 1999
RCRA Id : ORQ000011072
Inactive : Not reported
Status: Small quantity generator
Manifest : 89465

BRIANS CABINETS (Continued) **1004771584**

Ship Date :	06/18/1999
TSD :	ILD980613913
WS Num:	1
Transporter:	Not reported
Ship Qty :	Not reported
Rpt Unit :	Not reported
Off Mng :	M061
EPA Waste Codes:	F003
Waste Description:	Stain and lacquor waste, Rags, primary

Total Amt Of Waste Stream Generated in Reporting Yr 1: 2020
Total Amt Of Waste Stream Generated in Reporting Yr 2: 269

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21 **CONSOLIDATED TOWING INC** **OR AST** **A100523079**
North **1000 SE 9TH ST** **N/A**
1/8-1/4 **BEND, OR 97702**
0.224 mi.
1182 ft.

Relative: **Higher**

Actual: **3727 ft.**

AST:

Facility ID:	40162
Name:	CONSOLIDATED TOWING INC
Address:	1000 SE 9TH ST
City,State,Zip:	BEND, OR 97702
Substance:	FERRELLGAS PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	MICHAEL K
Direct Site Phone:	5413898080
Report Class:	Annual
Report Year:	2021
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	TOWING & RECOVERY
NAICS Code:	811111
Maximum Daily Amount Code:	4
Maximum Daily Amount Code Range:	50-199
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No

CONSOLIDATED TOWING INC (Continued) **A100523079**

Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

Facility ID:	40162
Name:	CONSOLIDATED TOWING INC
Address:	1000 SE 9TH ST
City,State,Zip:	BEND, OR 97702
Substance:	FERRELLGAS PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	MICHAEL K
Direct Site Phone:	5413898080
Report Class:	Annual
Report Year:	2022
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	ACTIVE
Nature of Business:	TOWING & RECOVERY
NAICS Code:	811111
Maximum Daily Amount Code:	4
Maximum Daily Amount Code Range:	50-199
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No

CONSOLIDATED TOWING INC (Continued) **A100523079**

Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	No

22
SSW
1/4-1/2
0.489 mi.
2582 ft.

SANDERSON CO. - PARCEL 1 **OR ECSI** **S105613866**
BROSTERHOUSE RD. & AMERICAN LN. **OR CRL** **N/A**
BEND, OR 97702 **OR ENG CONTROLS**
OR VCP

Relative:
Higher

Actual:
3745 ft.

ECSI:

Name:	SANDERSON CO. - PARCEL 1
Address:	BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip:	BEND, OR 97702
State ID Number:	1247
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	Listed on the CRL/Inventory
FACA ID:	40122
Further Action:	0
Lat/Long (dms):	44 1 45.78 / -121 17 19.07
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	9
Qtr Section:	D
Tax Lots:	700
Size:	107 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	07/14/2014
Created Date:	09/25/1992
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Listed on the CRL/Inventory

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Decode For Legislative: Not reported
Alias Name: Glacier Park
Alias Name: Lynne Perlatti Property

Hazardous Release:
Substance ID.: 121989
Haz Release ID: 383666
Qty Released: unknown
Date Released: unknown
Update Date: 08/09/1992
Update By: Not reported
Substance Code: ECD200
Substance Name: OIL OR FUEL RELATED COMPOUNDS
Substance Abbrev.: Not reported
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8532
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 302848
Release Code: Media Contamination Footnote
Release Comments: see Hazardous Substances on page 1
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 344124
Feature Id: Not reported
Hazard Release Id: 383666
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: True
Lab Data: False
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Not reported
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Soil

Narrative:
NARR ID: 5732409
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (9/8/92 DJH/SAS) An unknown tar-like substance was noted on several acres of the site at and below ground surface. Material is present to thickness of 38 inches in the subsurface. Material may be crude oil,

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

bunker oil, or other.

NARR ID: 5732410
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: 1) Preliminary Assessment by Hart Crowser (3/16/90); 2) Site report from Patrick Gisler; 3) Glacier Park correspondence.

NARR ID: 5732411
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: tar or creosote-like substance

NARR ID: 5732412
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: Site consists of 5 parcels, 144 and 146-49; the property is bounded east by BNRR trackage, west by Brosterhouse Road, north by American Lane, and south by a mobile home park; additional T/R/S data: 18S/12E/9DB, 16AB. (Note: lat/long coordinates for the site are for Adjusted Parcel 1, the portion of the site that is listed on DEQ's Confirmed Release List and Inventory).

NARR ID: 5732413
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Manner and time of release unknown.

NARR ID: 5732414
NARR Code: Project Type
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Project Type
NARR Comments: Responsible party initiated letter agreement

NARR ID: 5732415
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Updated By: GWISTAR
Updated Date: 09/15/2003
Decode for NarcdID: Remedial Action
NARR Comments: (9/8/92 DJH/SAS) Further investigation recommended. (5/4/94 DD/SAS) Site visit conducted. Evidence indicated re-evaluation of priority appropriate. Consider site a low priority. (7/20/94 JLS/VCS) Site added to the VCS Waiting List. (9/27/95 WCW/VCS) File brought into active status upon receipt of letter agreement and posting of bond on 9/5/95. Contacted consultant (CWE) to request any additional site information for DEQ's File Review Memo. (12/14/95 WCW/VCS) Finished File Review Memo 11/15/95; conducted site visit w/RP and CWE on 11/16/95; discussed technical approach strategies, and requested remedial action workplan. VCP authorized additional site characterization for PAHs, 1/18/96. (9/13/01 WCW/VCS) Site has been divided into two <quot>parcel<quot> sites. Parcel 1 will be remain listed on the CRL/I for the portion of the site where contaminated soil from Parcel 2 was consolidated in a cap (Parcel 2 is now ECSI #3127). The site owner will need to file information for both Sanderson ECSI sites (#1247 and #3127) with the Deschutes County tax assessor. Further risk assessment underway.

NARR ID: 5732416
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Health Threats
NARR Comments: Potential for direct contact with hazardous substances, and a release to surface water or groundwater.

NARR ID: 5744960
NARR Code: Institutional Control
Created By: DCROUSE
Created Date: 04/28/2004
Updated By: DCROUSE
Updated Date: 04/28/2004
Decode for NarcdID: Institutional Control
NARR Comments: Periodic Review; <0.5 acre of capped material from Parcel 2.

Site Control:
Site Control #: 253
Control Number: 37
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Cliff Walkey
Last Reviewed Date: 06/17/2004
Last Update By: GWISTAR
Last Updated Date: 11/24/2004
Site Comment: Contaminated soil from Parcel 2 was consolidated into a cap on Parcel 1 (this site).

Administrative Action:
Action ID: 9470
Region: Eastern Region
Complete Date: 12/14/1995
Rank Value: 0

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9511
Region: Eastern Region
Complete Date: 02/01/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: Not reported
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 09/05/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9459
Region: Eastern Region
Complete Date: 12/14/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9519
Region: Eastern Region
Complete Date: 09/04/1995
Rank Value: 7
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: VCS Waiting List
Further Action: Not reported
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 02/29/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Headquarters
Complete Date: 09/17/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Headquarters
Complete Date: 09/17/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Eastern Region
Complete Date: 12/10/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Eastern Region
Complete Date: 01/12/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Eastern Region
Complete Date: 04/09/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Eastern Region
Complete Date: 04/09/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Headquarters
Complete Date: 05/14/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Headquarters
Complete Date: 05/14/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Eastern Region
Complete Date: 09/05/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9413
Region: Eastern Region
Complete Date: 09/12/2001
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/29/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Category: Remedial Action
Action Code Flag: False
Action: Closeout activities on completed project
Further Action: 0
Comments: Not reported

Action ID: 9422
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Engineering Control
Further Action: 0
Comments: Not reported

Action ID: 9521
Region: Eastern Region
Complete Date: 04/04/1994
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/22/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: OPTN
Further Action: 0
Comments: Not reported

Action ID: 9466
Region: Eastern Region
Complete Date: 06/17/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/30/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Periodic Review
Further Action: 0
Comments: Not reported

Action ID: 9469
Region: Eastern Region
Complete Date: 08/31/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9426
Region: Eastern Region
Complete Date: 02/25/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9429
Region: Eastern Region
Complete Date: 05/15/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: FEASIBILITY STUDY
Further Action: Not reported
Comments: Not reported

Action ID: 9486
Region: Eastern Region
Complete Date: 03/01/1999
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: RISK ASSESSMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 09/06/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 09/06/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Headquarters
Complete Date: 04/09/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Headquarters
Complete Date: 09/08/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Low
Comments: Not reported

Action ID: 9491
Region: Eastern Region
Complete Date: 02/01/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Further Action: Not reported
Comments: Not reported

Action ID: 9494
Region: Eastern Region
Complete Date: 07/01/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132561
Operation Status: Inactive
Common Name: Sanderson Co. - Parcel 1
Yrs of Operation: 1931 - 1989 (circa).
Comments: Vacant land adjacent to Burlington Northern RR line; some historical railroad use of portions of the site.
Updated Date: 09/17/2001
Updated By: dmc
Decode for OpstatID: Inactive
Operations SIC Id: 197612
SIC Code: 4013
Created By: Not reported
Created Date: 12/17/2002
Operations SIC Id: 196256
SIC Code: 9999
Created By: Not reported
Created Date: 12/17/2002

Name: SANDERSON CO. - PARCEL 2
Address: BROSTERHOUSE RD & AMERICAN LN
City,State,Zip: BEND, OR 97702
State ID Number: 3127
Brown ID: 0
Study Area: False
Region ID: 1
Legislatve ID: 0
Investigation: No Further Action
FACA ID: 41296
Further Action: 0
Lat/Long (dms): 44 1 31.13 / -121 17 24.55
County Code: 9.00
Score Value: 0
Cerclis ID: Not reported
Township Coord.: 18.00
Township Zone: S
Range Coord: 12.00
Range Zone: E
Section Coord: 9
Qtr Section: DC
Tax Lots: Not reported

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Size: 5 acres
NPL: False
Orphan: False
Updated By: DCROUSE
Update Date: 04/18/2003
Created Date: 09/07/2001
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported
Alias Name: Lynn Perlatti Property

Narrative:
NARR ID: 5741617
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: 1. DEQ/WCW/VCP Project Manager files. 2. ECSI #1247 file.

NARR ID: 5741618
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: petroleum (Bunker C fuel)

NARR ID: 5741619
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Past business practice; time of release unknown (circa 1931 - 1989).

NARR ID: 5741620
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (9/13/01 DMC/SAS) The original Perlatti site, ECSI #1247, has been divided into two <quot>parcel<quot> sites. Parcel 2 is where the cleanup of contaminated soil resulted in an unqualified No Further Action (NFA) letter from DEQ's Voluntary Cleanup Program (VCP). Refer to ECSI #1247 for a complete history of investigative and remedial actions for both sites. ECSI #1247 is listed as Parcel 1, and includes the area where contaminated soil from Parcel 2 was placed in a consolidated cap. The capped portion of ECSI #1247 remains on DEQ's Confirmed Release List and Inventory (CRL/I). However, ECSI #3127 is not listed on the CRL/I.

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Administrative Action:
Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 08/31/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9419
Region: Eastern Region
Complete Date: 08/31/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Decision Not to List Site (on the CRL or Inventory)
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Eastern Region
Complete Date: 08/31/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Action ID: 9437
Region: Eastern Region
Complete Date: 08/31/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 134315
Operation Status: Inactive
Common Name: Sanderson Co. - Parcel 2
Yrs of Operation: 1931-1989 (circa).
Comments: Vacant property with past railroad activity.
Updated Date: 09/16/2001
Updated By: dmc
Decode for OpstatID: Inactive
Operations SIC Id: 197604
SIC Code: 4013
Created By: Not reported
Created Date: 12/17/2002

CRL:
Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
Facility ID: 1247
Location ID: 40122
Status Code: LIS
Facility Status: Closeout activities on completed project
Lat/Long: 44.0293 / -121.2886

Enginering Control:
Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
Site Control Sequence #: 253
Site Id: 1247
Control Sequence #: 37
Begin Date: 10/01/2001
End Date: Not reported
Frequency Of Review: 60
Last Reviewed By: Cliff Walkey
Last Review Date: 06/17/2004
Last Updated By: GWISTAR
Last Updated Date: 11/24/2004
Group Sequence #: 9
Control Code: CPNE
Control Description: Cap, non-engineered
FK Type Code: 2
Group Code: SB

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Group Description: Surface Barriers
Type Code: E
Type Description: Engineering
Comments: Contaminated soil from Parcel 2 was consolidated into a cap on Parcel 1 (this site).

VCS:
Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Engineering Control
Start Date: 08/31/2001
End Date: Not reported
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: FEASIBILITY STUDY
Start Date: 03/01/1999
End Date: 05/15/2000
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Facility placed on Confirmed Release List
Start Date: 09/17/1998
End Date: 09/17/1998
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Facility placed on Inventory
Start Date: 09/17/1998
End Date: 09/17/1998

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Letter Agreement
Start Date: 02/29/2000
End Date: 02/29/2000
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Letter Agreement
Start Date: 09/05/1995
End Date: 09/05/1995
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: NEGOTIATIONS
Start Date: 09/04/1995
End Date: 09/05/1996
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Start Date: 09/05/1995
End Date: 12/14/1995
Program: VCS

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Facility proposed for Confirmed Release List
Start Date: 05/14/1998
End Date: 05/14/1998
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Facility proposed for Inventory
Start Date: 05/14/1998
End Date: 05/14/1998
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: REMEDIAL ACTION
Start Date: 02/01/2001
End Date: 08/31/2001
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Other remedial or investigative action recommended
Start Date: 12/14/1995
End Date: 12/14/1995
Program: VCS
Latitude: 44.0293

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: RISK ASSESSMENT
Start Date: 01/27/1999
End Date: 03/01/1999
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: REMOVAL
Start Date: 10/01/2000
End Date: 02/01/2001
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: REMOVAL
Start Date: 10/01/1998
End Date: 12/10/1998
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: REMOVAL
Start Date: 01/12/1999
End Date: 01/12/1999
Program: VCS
Latitude: 44.0293
Longitude: -121.2886

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: RECORD OF DECISION
Start Date: 05/15/2000
End Date: 07/01/2000
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Proposal for Confirmed Release List recommended
Start Date: 04/09/1998
End Date: 04/09/1998
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Proposal for Inventory recommended
Start Date: 04/09/1998
End Date: 04/09/1998
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: SITE INVESTIGATION
Start Date: 09/05/1995
End Date: 02/01/2001
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: VCS Waiting List
Start Date: 07/19/1994
End Date: 09/04/1995
Program: VCS
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: False
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 1
Address: BROSTERHOUSE RD. & AMERICAN LN.
City,State,Zip: BEND, OR 97702
ECS Site ID: 1247
Facility Size: 107 acres
Action: Closeout activities on completed project
Start Date: 09/12/2001
End Date: 09/12/2001
Program: VCP
Latitude: 44.0293
Longitude: -121.2886
Primary Action Flag: True
Investigation Code: LIS

Name: SANDERSON CO. - PARCEL 2
Address: BROSTERHOUSE RD & AMERICAN LN
City,State,Zip: BEND, OR 97702
ECS Site ID: 3127
Facility Size: 5 acres
Action: Decision Not to List Site (on the CRL or Inventory)
Start Date: 08/31/2001
End Date: 08/31/2001
Program: VCS
Latitude: 44.0253
Longitude: -121.2901
Primary Action Flag: False
Investigation Code: NFA

Name: SANDERSON CO. - PARCEL 2
Address: BROSTERHOUSE RD & AMERICAN LN
City,State,Zip: BEND, OR 97702
ECS Site ID: 3127
Facility Size: 5 acres
Action: SITE EVALUATION
Start Date: 08/30/2001
End Date: 08/31/2001
Program: VCS
Latitude: 44.0253
Longitude: -121.2901
Primary Action Flag: False
Investigation Code: NFA

SANDERSON CO. - PARCEL 1 (Continued) **S105613866**

Name:	SANDERSON CO. - PARCEL 2
Address:	BROSTERHOUSE RD & AMERICAN LN
City,State,Zip:	BEND, OR 97702
ECS Site ID:	3127
Facility Size:	5 acres
Action:	Listing Review completed
Start Date:	08/30/2001
End Date:	08/31/2001
Program:	VCS
Latitude:	44.0253
Longitude:	-121.2901
Primary Action Flag:	False
Investigation Code:	NFA

Name:	SANDERSON CO. - PARCEL 2
Address:	BROSTERHOUSE RD & AMERICAN LN
City,State,Zip:	BEND, OR 97702
ECS Site ID:	3127
Facility Size:	5 acres
Action:	NO FURTHER STATE ACTION REQUIRED
Start Date:	08/31/2001
End Date:	08/31/2001
Program:	VCS
Latitude:	44.0253
Longitude:	-121.2901
Primary Action Flag:	True
Investigation Code:	NFA

23
North
1/4-1/2
0.491 mi.
2592 ft.

BEND PLATING-PVD COATINGS LLC
550 SE BRIDGEFORD ST ST SE
BEND, OR 97702

OR ECSI **S106770265**
OR AIRS **N/A**
OR HSIS
OR MANIFEST
OR UIC

Relative:
Lower

Actual:
3718 ft.

ECSI:

Name:	BEND PLATING
Address:	550 SE BRIDGEFORD BLVD.
City,State,Zip:	BEND, OR 97702
State ID Number:	5469
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	3310
Further Action:	0
Lat/Long (dms):	44 2 42.40 / -121 17 20.80
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	4
Qtr Section:	AC
Tax Lots:	Not reported
Size:	Not reported

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 06/07/2016
Created Date: 01/05/2011
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: Suspect
Decode For Legislative: Not reported

Narrative:
NARR ID: 5752691
NARR Code: Contamination
Created By: DCROUSE
Created Date: 01/05/2011
Updated By: DCROUSE
Updated Date: 01/09/2011
Decode for NarcdID: Contamination
NARR Comments: (1/5/11 DMC/SAS) Site added for tracking as an active plating operation.

NARR ID: 5752705
NARR Code: Data Sources
Created By: DCROUSE
Created Date: 01/09/2011
Updated By: DCROUSE
Updated Date: 01/09/2011
Decode for NarcdID: Data Sources
NARR Comments: 1. DEQ HW program. 2. Polk City Directories. 3. Bend Phonebooks. 4. Internet Websites.

NARR ID: 5752706
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 01/09/2011
Updated By: DCROUSE
Updated Date: 01/09/2011
Decode for NarcdID: Remedial Action
NARR Comments: (1/5/11 DMC/SAS) Site screening recommended.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 01/05/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/05/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Complete Date: 01/05/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/05/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135710
Operation Status: Active
Common Name: Bend Plating
Yrs of Operation: early 1980s to present.
Comments: Plating facility.
Updated Date: 01/09/2011
Updated By: DCROUSE
Decode for OpstatID: Active
Operations SIC Id: 199134
SIC Code: 3471
Created By: DCROUSE
Created Date: 01/09/2011

AIRS:
Source ID: 09-0012
Permit Number: 09-0012-02-01
Address: 550 SE BRIDGEFORD BLVD
Name: BEND PLATING, INC.
City,State,Zip: BEND, OR 97702
Year: 2011
Permit Type: Not reported
Expiration Date: Not reported
Pollutant: Not reported
Issue Date: Not reported
Emissions: Not reported
NAICS Code: 332813
Is NAICS Code Primary: Not reported
SIC Code: 3471
Is SIC Code Primary: Not reported
Latitude: Not reported
Longitude: Not reported
Emission Source Code: Not reported
Emission Source Description: Not reported
Process Code: Not reported
Process Description: Not reported
Process Unit: Not reported
SCC: Not reported
Throughput: Not reported
Throughput Type: Not reported

HSIS:
Name: BEND PLATING INC
Address: 550 SE BRIDGEFORD ST
City,State,Zip: BEND, OR 97702

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Facility ID:	007189
Department Or Division Of Company:	Not reported
Chemical Is Extremely Hazardous Substance (EHS:	N
Contains 112R:	N
Facility Has Written Emergency Plan:	Y
NAICS Code 1:	332813
NAICS Desc 1:	ELECTROPLATING, PLATING, POLISHING, ANODI
NAICS Code 2:	000000
NAICS Desc 2:	Not reported
Manager Name:	ROBERT REITEN
Business Phone:	5413883456
Mailing Address:	550 SE BRIDGEFORD ST
Mailing City:	BEND
Mailing State:	OR
Mailing Zip:	97702
No. of Employees:	47
Day Phone:	5413883456
Placard:	Y
Fire Dept Code:	0024
FD:	BEND FD
Sprinkler System:	Y
Emergency Contact:	ROBERT REITEN
Emergency Procedure:	PROMINENT LOCATION IN MAIN OFFICE
Business Type:	ELECTROPLATING METAL FINISHING
Facility Type:	Not reported
Department:	Not reported
Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Status TRI:	Not reported
Status RMP:	Not reported
Status PSM:	Not reported
Status CR2K:	Not reported
Status 302:	Not reported
Owner Name:	Not reported
Last Reported ID:	Not reported
Maximum Daily Amount Range:	Not reported
Case Number:	Not reported
Chemical Name:	Not reported
EHS Name:	Not reported
Is Pure:	Not reported
Is Mix:	Not reported
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	Not reported
Maximum Daily Amount Unit:	Not reported
Chemical Added Date:	Not reported
Is Chem PSM:	Not reported
Is Chem 112R:	Not reported
Is Chem 302:	Not reported
Is Pesticide:	Not reported
Is Fertilizer:	Not reported
Physical State:	Not reported
UNNA Number:	Not reported
NFPA Health:	Not reported
NFPA Flammability:	Not reported
NFPA Reactivity:	Not reported

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

NFPA Special Notice:	Not reported
Hazards:	Not reported
Number of Days Onsite:	Not reported
Year:	Not reported
Case Number:	N/A
Chemical Name:	WASTE F006 PLATING SLUDGE
EHS Name:	Not reported
Is Pure:	Yes
Is Mix:	No
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Unit:	lbs
Chemical Added Date:	05/01/2017
Is Chem PSM:	No
Is Chem 112R:	No
Is Chem 302:	No
Is Pesticide:	No
Is Fertilizer:	No
Physical State:	Solid
UNNA Number:	N/A
NFPA Health:	0
NFPA Flammability:	0
NFPA Reactivity:	0
NFPA Special Notice:	N/A
Hazards:	Health HNOC, Physical HNOC
Number of Days Onsite:	365
Year:	2018
Case Number:	6834920
Chemical Name:	SOAK CLEANER BATHS
EHS Name:	Not reported
Is Pure:	Yes
Is Mix:	No
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	11
Maximum Daily Amount Unit:	gal
Chemical Added Date:	05/01/2017
Is Chem PSM:	No
Is Chem 112R:	No
Is Chem 302:	No
Is Pesticide:	No
Is Fertilizer:	No
Physical State:	Liquid
UNNA Number:	3253
NFPA Health:	2
NFPA Flammability:	0
NFPA Reactivity:	0
NFPA Special Notice:	Not reported
Hazards:	Health SkinCorrosion
Number of Days Onsite:	365
Year:	2018
Case Number:	7440508
Chemical Name:	COPPER ANODE NUGGETS

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

EHS Name:	Not reported
Is Pure:	Yes
Is Mix:	No
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	11
Maximum Daily Amount Unit:	lbs
Chemical Added Date:	05/01/2017
Is Chem PSM:	No
Is Chem 112R:	No
Is Chem 302:	No
Is Pesticide:	No
Is Fertilizer:	No
Physical State:	Solid
UNNA Number:	Not reported
NFPA Health:	Not reported
NFPA Flammability:	Not reported
NFPA Reactivity:	Not reported
NFPA Special Notice:	Not reported
Hazards:	Health HNOC
Number of Days Onsite:	365
Year:	2018

Case Number:	7440020
Chemical Name:	NICKEL ANODES
EHS Name:	Not reported
Is Pure:	Yes
Is Mix:	No
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Unit:	lbs
Chemical Added Date:	05/01/2017
Is Chem PSM:	No
Is Chem 112R:	No
Is Chem 302:	No
Is Pesticide:	No
Is Fertilizer:	No
Physical State:	Solid
UNNA Number:	Not reported
NFPA Health:	Not reported
NFPA Flammability:	Not reported
NFPA Reactivity:	Not reported
NFPA Special Notice:	Not reported
Hazards:	Health SpecificOrganToxicity
Number of Days Onsite:	365
Year:	2018

Case Number:	497198
Chemical Name:	2171 GENERAL CLEANER
EHS Name:	Not reported
Is Pure:	Yes
Is Mix:	No
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	11
Maximum Daily Amount Unit:	lbs

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Chemical Added Date:	05/01/2017
Is Chem PSM:	No
Is Chem 112R:	No
Is Chem 302:	No
Is Pesticide:	No
Is Fertilizer:	No
Physical State:	Solid
UNNA Number:	Not reported
NFPA Health:	Not reported
NFPA Flammability:	Not reported
NFPA Reactivity:	Not reported
NFPA Special Notice:	Not reported
Hazards:	Health SkinCorrosion
Number of Days Onsite:	365
Year:	2018

Case Number:	N/A
Chemical Name:	WASTE REVERSE STRIP SLUDGE
EHS Name:	Not reported
Is Pure:	Yes
Is Mix:	No
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Unit:	lbs
Chemical Added Date:	05/01/2017
Is Chem PSM:	No
Is Chem 112R:	No
Is Chem 302:	No
Is Pesticide:	No
Is Fertilizer:	No
Physical State:	Solid
UNNA Number:	N/A
NFPA Health:	0
NFPA Flammability:	0
NFPA Reactivity:	0
NFPA Special Notice:	N/A
Hazards:	Health HNOC, Health SkinCorrosion, Physical Oxidizer
Number of Days Onsite:	365
Year:	2018

Chemical:

Chemical Name:	NICKEL ANODES
Physical Description:	SOLID
Case Number:	7440020
Facility Id:	007189
Physical State Of The Substance:	1
Average Amount Possessed During The Year Code:	20
Maximum Amount Possessed During The Year Code:	30
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	F
Description:	CAN
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	10,000-49,999
Description Of The Avg Qnty Code:	1,000-4,999
Most Hazardous Ingridient:	NICKEL
United Nations/north America 4 Digit Class Number:	Not reported
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	True
Substance Mix:	False
First Hazardous Class Code For Chemical:	Acute Health Hazard
Second Hazardous Class Code For Chemical:	Chronic Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	6.3
Hazard Class 2 Of The Chemical:	6.4
Hazard Class 3 Of The Chemical:	Not reported

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	Y
EPA Pesticide Registration Number:	Not reported
Contains 112R:	N
Contains EHS:	N
Fertilizer:	N
Pesticide:	N
Contains 313:	N

Chemical Name:	B-9 NICKEL STRIP
Physical Description:	SOLID
Case Number:	Not reported
Facility Id:	007189
Physical State Of The Substance:	1
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	E
Description:	PLASTIC OR NON-METALLIC DRUM
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	500-999
Description Of The Avg Qnty Code:	500-999

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Most Hazardous Ingridient:	NONE LISTED
United Nations/north America 4 Digit Class Number:	Not reported
Hazard Rank:	1
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Miscellaneous Hazardous Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	9.0
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported
Chemical Name:	WASTE REVERSE STRIP SLUDGE
Physical Description:	SOLID
Case Number:	Not reported
Facility Id:	007189
Physical State Of The Substance:	1
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	20
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	E
Description:	PLASTIC OR NON-METALLIC DRUM
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	1,000-4,999
Description Of The Avg Qnty Code:	500-999
Most Hazardous Ingridient:	SULFURIC ACID
United Nations/north America 4 Digit Class Number:	Not reported
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Corrosive Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	8.0
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported
Chemical Name:	WASTE F006 PLATING SLUDGE
Physical Description:	SOLID
Case Number:	Not reported
Facility Id:	007189
Physical State Of The Substance:	1
Average Amount Possessed During The Year Code:	11

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Maximum Amount Possessed During The Year Code:	20
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	D
Description:	STEEL DRUM
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	1,000-4,999
Description Of The Avg Qnty Code:	500-999
Most Hazardous Ingridient:	NICKEL/CHROME
United Nations/north America 4 Digit Class Number:	Not reported
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Miscellaneous Hazardous Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	9.0
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Chemical Name:	ECONOCHROME 300 SOLUTION
Physical Description:	LIQUID
Case Number:	Not reported
Facility Id:	007189
Physical State Of The Substance:	2
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	C
Description:	TANK INSIDE BUILDING
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	GREATER THAN NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	5
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	500-999
Description Of The Avg Qnty Code:	500-999

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Most Hazardous Ingridient:	CHROMIUM TROXIDE
United Nations/north America 4 Digit Class Number:	1463
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Oxidizers
Second Hazardous Class Code For Chemical:	Corrosive Material
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	5.1
Hazard Class 2 Of The Chemical:	8.0
Hazard Class 3 Of The Chemical:	Not reported
Chemical Name:	CAUSTIC SODA SOAK CLEANER
Physical Description:	LIQUID
Case Number:	1310732
Facility Id:	007189
Physical State Of The Substance:	2
Average Amount Possessed During The Year Code:	20
Maximum Amount Possessed During The Year Code:	20
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	C
Description:	TANK INSIDE BUILDING
Type Code:	E
Temperature Description:	PLASTIC OR NON-METALLIC DRUM
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Temperature Description:	GREATER THAN NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	5
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	1,000-4,999
Description Of The Avg Qnty Code:	1,000-4,999
Most Hazardous Ingridient:	SODIUM SILICATE-CAUSTIC SODA
United Nations/north America 4 Digit Class Number:	Not reported
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Corrosive Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	8.0
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	Not reported
EPA Pesticide Registration Number:	Not reported
Contains 112R:	Not reported
Contains EHS:	Not reported
Fertilizer:	Not reported
Pesticide:	Not reported

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Contains 313: Not reported

Chemical Name: COPPER ANODE NUGGETS
Physical Description: SOLID
Case Number: 7440508
Facility Id: 007189
Physical State Of The Substance: 1
Average Amount Possessed During The Year Code: 11
Maximum Amount Possessed During The Year Code: 20
Applicable Unit Of Measure Code: 1
Description Of The Unit Of Measure: POUNDS
Type Code: E
Description: PLASTIC OR NON-METALLIC DRUM
Type Code: Not reported
Temperature Description: Not reported
Pressure of Code: 1
Pressure Description: NORMAL PRESSURE
Pressure of Code: Not reported
Pressure Description: Not reported
Temperature Description: NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code: 4
Temperature Description: Not reported
Temperature of The Hazardous Substance Code: Not reported
Days Hazardous Substance On Site During Year: 365
Is The Substance Protected A Trade Secret: False
Description Of The Max Qnty Code: 1,000-4,999
Description Of The Avg Qnty Code: 500-999
Most Hazardous Ingridient: COPPER
United Nations/north America 4 Digit Class Number: Not reported
Hazard Rank: 2
EHS Ingredient: Not reported
Substance Pure: True
Substance Mix: False
First Hazardous Class Code For Chemical: Miscellaneous Hazardous Material
Second Hazardous Class Code For Chemical: Not reported
Third Hazardous Class Code For Chemical: Not reported
Hazard Class 1 Of The Chemical: 9.0
Hazard Class 2 Of The Chemical: Not reported
Hazard Class 3 Of The Chemical: Not reported

Additional Chemical:
Chemical Is A Toxic 313 Chemical: Y
EPA Pesticide Registration Number: Not reported
Contains 112R: Not reported
Contains EHS: Not reported
Fertilizer: Not reported
Pesticide: Not reported
Contains 313: N

OR MANIFEST:
Manifest Year: Manifest Year - 2020
EPA Id: ORD987200193
Inactive Status: Not reported
Organization Name: Not reported
Contact Name: Rocky Johnson

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Contact Telephone Number: Not reported
Mailing Address: 550 SE Bridgeford Blvd
Mailing City/State/Zip: Bend, OR 97702

Manifest:
Name: BEND PLATING-PVD COATINGS LLC
Year : 2020
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 022222620JJK
Ship Date : 10/16/2020
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: Sludge from waste water treatment
Total Amt Of Waste Stream Generated in Reporting Yr 1: 773.2175
Total Amt Of Waste Stream Generated in Reporting Yr 2: 773.2175

Name: BEND PLATING-PVD COATINGS LLC
Year : 2020
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 022222620JJK
Ship Date : 10/16/2020
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1315.15
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1315.15

Manifest:
Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 013929162FLE
Ship Date : 10/04/2019
TSD : NVT330010000
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Off Mng : H039
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 12936.0875
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1360.5

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 013929162FLE
Ship Date : 10/04/2019
TSD : NVT330010000
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1135.564
Total Amt Of Waste Stream Generated in Reporting Yr 2: 453.0465

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 013929162FLE
Ship Date : 10/04/2019
TSD : NVT330010000
WS Num: 5
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: Lead anodes used in chrome plating process
Total Amt Of Waste Stream Generated in Reporting Yr 1: 190.0165
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.0165

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 013929162FLE
Ship Date : 10/04/2019
TSD : NVT330010000
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Total Amt Of Waste Stream Generated in Reporting Yr 1: 1135.564
Total Amt Of Waste Stream Generated in Reporting Yr 2: 453.0465

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 013929162FLE
Ship Date : 10/04/2019
TSD : NVT330010000
WS Num: 4
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: Waste sludge generated from electroplating operations
Total Amt Of Waste Stream Generated in Reporting Yr 1: 559.1655
Total Amt Of Waste Stream Generated in Reporting Yr 2: 559.1655

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 013929162FLE
Ship Date : 10/04/2019
TSD : NVT330010000
WS Num: 5
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D008
Waste Description: Lead anodes used in chrome plating process
Total Amt Of Waste Stream Generated in Reporting Yr 1: 190.0165
Total Amt Of Waste Stream Generated in Reporting Yr 2: 190.0165

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 013929162FLE
Ship Date : 10/04/2019
TSD : NVT330010000
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D008
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1135.564
Total Amt Of Waste Stream Generated in Reporting Yr 2: 453.0465

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 013929162FLE
Ship Date : 10/04/2019
TSD : NVT330010000
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: Sludge from waste water treatmen
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2137.799
Total Amt Of Waste Stream Generated in Reporting Yr 2: 701.111

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 019818007JJK
Ship Date : 04/05/2019
TSD : NVT330010000
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H039
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 12936.0875
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3537.3

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 019818007JJK
Ship Date : 04/05/2019
TSD : NVT330010000
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1135.564
Total Amt Of Waste Stream Generated in Reporting Yr 2: 682.5175

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BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 019818007JJK
Ship Date : 04/05/2019
TSD : NVT330010000
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1135.564
Total Amt Of Waste Stream Generated in Reporting Yr 2: 682.5175

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 019818007JJK
Ship Date : 04/05/2019
TSD : NVT330010000
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D008
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1135.564
Total Amt Of Waste Stream Generated in Reporting Yr 2: 682.5175

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 019818007JJK
Ship Date : 04/05/2019
TSD : NVT330010000
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: Sludge from waste water treatmen
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2137.799
Total Amt Of Waste Stream Generated in Reporting Yr 2: 481.617

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Inactive : Not reported
Status: Large quantity generator
Manifest : 020644315JJK
Ship Date : 06/28/2019
TSD : NVT330010000
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H039
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 12936.0875
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2675.65

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 020644315JJK
Ship Date : 06/28/2019
TSD : NVT330010000
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: Sludge from waste water treatmen
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2137.799
Total Amt Of Waste Stream Generated in Reporting Yr 2: 394.9985

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 021057701JJK
Ship Date : 12/20/2019
TSD : NVT330010000
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: Sludge from waste water treatmen
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2137.799
Total Amt Of Waste Stream Generated in Reporting Yr 2: 560.0725

Name: BEND PLATING-PVD COATINGS LLC
Year : 2019
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 21057701

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Ship Date : 12/20/2019
TSD : NVT330010000
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H039
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 12936.0875
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5362.6375

Manifest:
Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018114816JJK
Ship Date : 04/06/2018
TSD : IDD073114654
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: SLUDGE FROM WASTE WATER TREATMENT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1846.652
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1013.119

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018114816JJK
Ship Date : 04/06/2018
TSD : IDD073114654
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: SLUDGE FROM WASTE WATER TREATMENT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1846.652
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1013.119

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018114816JJK

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Ship Date : 04/06/2018
TSD : IDD073114654
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: SLUDGE FROM WASTE WATER TREATMENT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1846.652
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1013.119

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018114816JJK
Ship Date : 04/06/2018
TSD : IDD073114654
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: SLUDGE FROM WASTE WATER TREATMENT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1846.652
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1013.119

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 6689.125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1337.825

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 6689.125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1337.825

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Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 6689.125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1337.825

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 6689.125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1337.825

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D008
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D008
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D008
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D008
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Manifest:
Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018114816JJK
Ship Date : 04/06/2018
TSD : IDD073114654
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: SLUDGE FROM WASTE WATER TREATMENT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1846.652
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1013.119

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018114816JJK
Ship Date : 04/06/2018
TSD : IDD073114654
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: SLUDGE FROM WASTE WATER TREATMENT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1846.652
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1013.119

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018114816JJK
Ship Date : 04/06/2018
TSD : IDD073114654
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: SLUDGE FROM WASTE WATER TREATMENT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1846.652
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1013.119

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018114816JJK
Ship Date : 04/06/2018
TSD : IDD073114654
WS Num: 3
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: SLUDGE FROM WASTE WATER TREATMENT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1846.652
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1013.119

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 6689.125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1337.825

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 6689.125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1337.825

Click this hyperlink while viewing on your computer to access
53 additional OR_MANIFEST: record(s) in the EDR Site Report.

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 6689.125
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Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 2
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002
Waste Description: SPENT CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 6689.125
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1337.825

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
Inactive : Not reported
Status: Large quantity generator
Manifest : 018752392JJK
Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
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Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

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Ship Date : 07/13/2018
TSD : IDD073114654
WS Num: 1
Transporter: Not reported
Ship Qty : Not reported
Rpt Unit : Not reported

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Off Mng : H132
EPA Waste Codes: D008
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP
Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

Name: BEND PLATING-PVD COATINGS LLC
Year : 2018
RCRA Id : ORD987200193
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EPA Waste Codes: D008
Waste Description: SLUDGE FROM CLEANOUT OF REVERSE STRIP

BEND PLATING-PVD COATINGS LLC (Continued) **S106770265**

Total Amt Of Waste Stream Generated in Reporting Yr 1: 772.76400000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 547.37450000000001

OR UIC:
Name: BEND PLATING, INC.
Address: 550 SE BRIDGEFORD BLVD
City,State,Zip: BEND, OR
UIC Well #: 1
Type: 5D3
Type Description: Storm Water Drill Holes/seepage Pits
UIC Number: 11073
Facility Status: Formal Closure
Lat/Long: 44.0448 / -121.2890

Name: BEND PLATING, INC.
Address: 550 SE BRIDGEFORD BLVD
City,State,Zip: BEND, OR
UIC Well #: 2
Type: 5D3
Type Description: Storm Water Drill Holes/seepage Pits
UIC Number: 11073
Facility Status: Formal Closure
Lat/Long: 44.0448 / -121.2890

Name: BEND PLATING, INC.
Address: 550 SE BRIDGEFORD BLVD
City,State,Zip: BEND, OR
UIC Well #: 3
Type: 5D3
Type Description: Storm Water Drill Holes/seepage Pits
UIC Number: 11073
Facility Status: Formal Closure
Lat/Long: 44.0448 / -121.2890

Name: BEND PLATING, INC.
Address: 550 SE BRIDGEFORD BLVD
City,State,Zip: BEND, OR
UIC Well #: 4
Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 11073
Facility Status: Formal Closure
Lat/Long: 44.0448 / -121.2890

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24 **BEND TRAP CLUB** **OR ECSI** **1007260891**
SW **61400 BROSTERHOUS RD** **OR VCP** **N/A**
1/2-1 **BEND, OR 97702** **FINDS**
0.562 mi.
2970 ft.

Relative:
Higher

Actual:
3754 ft.

ECSI:
Name: BEND TRAP CLUB
Address: 61400 BROSTERHOUS RD.
City,State,Zip: BEND, OR 97702
State ID Number: 4035
Brown ID: 0

BEND TRAP CLUB (Continued) **1007260891**

Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	81211
Further Action:	0
Lat/Long (dms):	44 1 48.70 / -121 17 47.00
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	9
Qtr Section:	BD
Tax Lots:	200
Size:	39.39 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	12/28/2012
Created Date:	01/07/2004
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5744482
NARR Code:	Contamination
Created By:	GWISTAR
Created Date:	01/13/2004
Updated By:	DCROUSE
Updated Date:	08/02/2005
Decode for NarcdID:	Contamination
NARR Comments:	(WCW 1/7/04) The Bend Trap Club is currently attempting to relocate to another site in Deschutes County. It is likely that the old site has lead contamination due to historic use. (8/2/05 DMC/SAS) Site screening in progress.

NARR ID:	5746906
NARR Code:	Hazardous Substance/Waste Types
Created By:	DCROUSE
Created Date:	08/02/2005
Updated By:	DCROUSE
Updated Date:	08/02/2005
Decode for NarcdID:	Hazardous Substance/Waste Types
NARR Comments:	lead

NARR ID:	5747274
NARR Code:	Manner of Release
Created By:	DCROUSE
Created Date:	09/30/2005
Updated By:	DCROUSE
Updated Date:	09/30/2005
Decode for NarcdID:	Manner of Release

BEND TRAP CLUB (Continued) **1007260891**

NARR Comments: Past and current business practices.

NARR ID: 5747273
NARR Code: Pathways Other Hazards
Created By: DCROUSE
Created Date: 09/30/2005
Updated By: DCROUSE
Updated Date: 09/30/2005
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Site is in an area of increased residential development and new homes have been built or are being built adjacent to the site. Contact with lead-contaminated soil is the main pathway of concern, especially with an increase of children living near the site. An irrigation canal also runs along the western border of the site, so there is a potential for surface water impacts, too.

NARR ID: 5746905
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 08/02/2005
Updated By: GWISTAR
Updated Date: 05/08/2007
Decode for NarcdID: Remedial Action
NARR Comments: (9/30/05 DMC/SAS) Site screening completed. The site has been active as a trap shooting range for more than 70 years but was recently sold to a development group with plans to build residential properties on the site. Lead shot has been periodically reclaimed over the years; however, lead accumulations in soil are expected to be well above acceptable levels for residential use. Owners were sent a high priority options letter on 9/19/05 with a 30-day deadline. (10/5/05 DMC/SAS) Response from Pennbrook Homes CEO Donald N. Baulhofer received on 10/3/05 includes the following: <quot>...we are anticipating developing the property into a residential community. Under our purchase agreement with the Bend Trap Club, the shooters will continue to use the facility through the Spring of 2006. At that time, hopefully, we will be in a position to begin development. Our first physical step in the development process will be to undertake a thorough clean-up of the site. We have consulted local environmental experts on the likely cost and scope of the cleanup, and we would welcome the DEQ's advice and participation in determining the correct procedure. Since the Trap Club members continue to use the site at this time, we will be unable to begin work on the site, I would recommend that we discuss this carefully shortly after the first of next year.<quot> Pennbrook will be asked to give DEQ something more than a statement saying they consulted with unnamed <quot>local environmental experts<quot> before an extension beyond 30-day deadline can be considered. (It should be noted that the site may not be restricted to the Trap Club property boundary. DEQ's concerns include the potential for off-site impacts on the recently developed homes near the site.) (10/20/05 DMC/SAS) DEQ's Bend office received an Intent to Participate (ITP) form on 10/18/05. (3/9/06 DEQ News Release) Pennbrook Living Associates (PLA) has entered into a Voluntary Cleanup Agreement with DEQ to investigate and conduct any necessary cleanup measures at the current site of the Bend Trap Club at 61400 Brosterhous Road in Bend. PLA recently purchased the property from the Bend Trap Club and will take possession of it this summer. PLA plans to develop the 39-acre property, a shooting range

BEND TRAP CLUB (Continued) **1007260891**

since 1932, as a residential planned-unit development. Shallow soils at the site will be investigated for the presence of lead shot and polynuclear aromatic hydrocarbons (PAHs) associated with the clay targets used in practice shooting. Initial soil sampling activities will be conducted in mid-March 2006 as part of a DEQ-approved work plan. The results of the sampling for lead and PAHs will be used to assess what cleanup measures will be needed for the site to be redeveloped under conditions considered to be protective of human health and the environment. [Excerpt from DEQ News Release, 5/8/07]: DEQ has determined that no further cleanup action is required in Area 4 North, a portion of the former Bend Trap Club site at 61400 Brosterhous Road in Bend, property first utilized as a skeet shooting range in 1932. Since November 2005, DEQ has provided oversight under a Voluntary Cleanup Agreement to investigate cleanup of the approximately 40-acre property slated to be redeveloped for residential uses. Investigation and cleanup of the Area 4 North portion of the site, the area least impacted from shooting activities, have now been completed. The primary contaminant of concern at Area 4 North was limited to lead. A Record of Decision (ROD) for the Bend Trap Club site was approved by DEQ in August 2006 for the cleanup of shallow soil containing lead from lead shot and polynuclear aromatic hydrocarbons (PAHs), primarily from clay pigeon fragments (CPF). A Remedial Action completed in September 2006 removed all the lead from the Area 4 North portion. Subsequent sampling of the Area 4 North property indicates that it meets DEQ s residential human health and ecological risk based cleanup goals. Cleanup of the rest of the site is anticipated to be completed by the end of May 2007, followed by a public comment period.

NARR ID: 5749631
NARR Code: 1922
Created By: GWISTAR
Created Date: 08/27/2007
Updated By: GWISTAR
Updated Date: 08/27/2007
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The property has been used as a trap and skeet shooting range since 1932 and is currently zoned for residential uses. The Bend Trap Club recently sold the property and stopped using the facility as a shooting range in June 2006. The property consists of a building and shed in the southwest corner of the property, nine shooter lanes along the southern portion of the site and corresponding clay pigeon skeet throwers, located 50 feet north of each station. The property has recently been purchased by Pennbrook Living Associates, now Abito Homes (Abito) and is planned to be developed into a residential subdivision. Abito signed a Voluntary Cleanup Agreement with DEQ in November 2005 to provide review and oversight of the shooting range investigation and facilitate implementation of a site remedy.

Administrative Action:
Action ID: 9469
Region: Eastern Region
Complete Date: 06/15/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/08/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region

BEND TRAP CLUB (Continued) **1007260891**

Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Action ID: 9463
Region: Eastern Region
Complete Date: 05/08/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/08/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Partial No Further Action
Further Action: 0
Comments: Not reported

Action ID: 9494
Region: Eastern Region
Complete Date: 08/31/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/08/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 10/01/2007
Rank Value: Not reported
Cleanup Flag: True
Created Date: 10/04/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported
Complete Date: 01/07/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/07/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action

BEND TRAP CLUB (Continued) **1007260891**

Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9469
Region: Eastern Region
Complete Date: 06/15/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/07/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Eastern Region
Complete Date: 09/02/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 07/26/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9437
Region: Eastern Region
Complete Date: 09/02/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/02/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: 0
Comments: Not reported

Action ID: 9498
Region: Eastern Region
Complete Date: 09/02/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/02/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False

BEND TRAP CLUB (Continued) **1007260891**

Action: Proposal for Confirmed Release List recommended
Further Action: 0
Comments: Not reported

Action ID: 9442
Region: Eastern Region
Complete Date: 11/08/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 10/20/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9465
Region: Eastern Region
Complete Date: 12/29/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/29/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: 0
Comments: Not reported

Action ID: 9510
Region: Eastern Region
Complete Date: 09/02/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/07/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: State Expanded Preliminary Assessment recommended (XPA)
Further Action: High
Comments: Not reported

Action ID: 9437
Region: Eastern Region
Complete Date: 03/07/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/07/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed

BEND TRAP CLUB (Continued) **1007260891**

Further Action: 0
Comments: Not reported

Action ID: 9419
Region: Eastern Region
Complete Date: 03/07/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/07/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Decision Not to List Site (on the CRL or Inventory)
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135045
Operation Status: Inactive
Common Name: Bend Trap Club
Yrs of Operation: 1932 to 2006.
Comments: Shooting range.
Updated Date: 03/09/2011
Updated By: DCROUSE
Decode for OpstatID: Inactive
Operations SIC Id: 198552
SIC Code: 3482
Created By: DCROUSE
Created Date: 02/14/2005

VCS:
Name: BEND TRAP CLUB
Address: 61400 BROSTERHOUS RD.
City,State,Zip: BEND, OR 97702
ECS Site ID: 4035
Facility Size: 39.39 acres
Action: NEGOTIATIONS
Start Date: 10/20/2005
End Date: 11/08/2005
Program: VCS
Latitude: 44.0302
Longitude: -121.2964
Primary Action Flag: False
Investigation Code: NFA

Name: BEND TRAP CLUB
Address: 61400 BROSTERHOUS RD.
City,State,Zip: BEND, OR 97702
ECS Site ID: 4035
Facility Size: 39.39 acres
Action: Partial No Further Action
Start Date: 05/08/2007
End Date: 05/08/2007
Program: VCS
Latitude: 44.0302
Longitude: -121.2964

BEND TRAP CLUB (Continued) **1007260891**

Primary Action Flag: False
Investigation Code: NFA

Name: BEND TRAP CLUB
Address: 61400 BROSTERHOUS RD.
City,State,Zip: BEND, OR 97702
ECS Site ID: 4035
Facility Size: 39.39 acres
Action: REMEDIAL ACTION
Start Date: 01/07/2004
End Date: 06/15/2006
Program: VCS
Latitude: 44.0302
Longitude: -121.2964
Primary Action Flag: False
Investigation Code: NFA

Name: BEND TRAP CLUB
Address: 61400 BROSTERHOUS RD.
City,State,Zip: BEND, OR 97702
ECS Site ID: 4035
Facility Size: 39.39 acres
Action: REMEDIAL ACTION
Start Date: 11/08/2005
End Date: 06/15/2006
Program: VCS
Latitude: 44.0302
Longitude: -121.2964
Primary Action Flag: False
Investigation Code: NFA

Name: BEND TRAP CLUB
Address: 61400 BROSTERHOUS RD.
City,State,Zip: BEND, OR 97702
ECS Site ID: 4035
Facility Size: 39.39 acres
Action: RECORD OF DECISION
Start Date: 06/15/2006
End Date: 08/31/2006
Program: VCS
Latitude: 44.0302
Longitude: -121.2964
Primary Action Flag: False
Investigation Code: NFA

Name: BEND TRAP CLUB
Address: 61400 BROSTERHOUS RD.
City,State,Zip: BEND, OR 97702
ECS Site ID: 4035
Facility Size: 39.39 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 10/01/2007
End Date: 10/01/2007
Program: VCS
Latitude: 44.0302
Longitude: -121.2964
Primary Action Flag: True

BEND TRAP CLUB (Continued) **1007260891**

Investigation Code: NFA

FINDS:
Registry ID: 110017341875

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Oregon Department of Environmental Quality (DEQ) is a regulatory agency tasked with protecting the quality of Oregon's environment. DEQ uses a combination of technical assistance, inspections, and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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25 WNW 1/2-1 0.662 mi. 3496 ft. **CAPITOL CLEANERS (FORMER) - 3RD ST.** **OR ECSI S106980830**
SE 3RD ST. (BETWEEN WILLOW & VINE) **OR VCP N/A**
BEND, OR 97701

Relative: Lower
Actual: 3712 ft.

ECSI:

Name:	CAPITOL CLEANERS (FORMER) - 3RD ST.
Address:	SE 3RD ST. (BETWEEN WILLOW & VINE)
City,State,Zip:	BEND, OR 97701
State ID Number:	3253
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	43921
Further Action:	0
Lat/Long (dms):	44 2 46.30 / -121 18 10.10
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	4
Qtr Section:	BC
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	08/25/2016
Created Date:	01/14/2002
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

CAPITOL CLEANERS (FORMER) - 3RD ST. (Continued) **S106980830**

Narrative:

NARR ID: 5742092
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: DCROUSE
Updated Date: 12/13/2006
Decode for NarcdID: Contamination
NARR Comments: (1/14/02 DMC/SAS) Site added to database for tracking as a former dry cleaner; listed in Polk city Directories and local phonebooks for 1956, 1959, 1968, 1970 & 1971. (12/13/06 DMC/SAS) Site location updated based on the change in street numbers (former 815 SE 3rd). Site appears to have been incorporated into or replaced by Central Oregon Dry Cleaners (ECSI #2962).

NARR ID: 5742093
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: DCROUSE
Updated Date: 12/13/2006
Decode for NarcdID: Data Sources
NARR Comments: 1. Polk City Directories (1957, 1968, 1970). 2. Prineville Phonebook (1956 & 1959).

NARR ID: 5742094
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Unknown.

NARR ID: 5748801
NARR Code: Site Location
Created By: DCROUSE
Created Date: 12/13/2006
Updated By: DCROUSE
Updated Date: 12/13/2006
Decode for NarcdID: Site Location
NARR Comments: Originally listed 815 SE 3rd Street; streets have been re-numbered see ECSI #2962. Site was located on the west side of SE 3rd, between Willow and Vine Lanes (southwest corner of 3rd and Vine).

NARR ID: 5756381
NARR Code: Remedial Action
Created By: GWISTAR
Created Date: 08/25/2016
Updated By: GWISTAR
Updated Date: 08/25/2016
Decode for NarcdID: Remedial Action
NARR Comments: [Nov. 12] In October 2012, a prospective buyer and the property owner joined DEQ’s Independent Cleanup Program (ICP). DEQ reviewed a Sample Collection and Analysis report completed by a consultant. It documented investigation activities at the Site as follows: No chlorinated solvent contamination from the former dry cleaner was

CAPITOL CLEANERS (FORMER) - 3RD ST. (Continued) **S106980830**

detected above DEQ risk based concentrations (RBCs) for applicable exposure pathway levels that are protective of human health and the enviromnent; and A dry well in the southwest comer of the parking lot had minor amounts of petroleum hydrocarbons within sediments at the bottom of the drill hole. Concentrations were not detected above DEQ RBCs for applicable exposure pathways. As aresult, DEQ made a no-further action decision in Nov. 2012 - which also applies to ECSI #2962.

Administrative Action:
Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 01/14/2002
Rank Value: 1
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Low
Comments: Not reported

Action ID: 9435
Region: Eastern Region
Complete Date: 11/14/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/25/2016
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 11/14/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/25/2016

CAPITOL CLEANERS (FORMER) - 3RD ST. (Continued) **S106980830**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 134416
Operation Status: Inactive
Common Name: Capitol Cleaners (Former) - 3rd ST
Yrs of Operation: 1956 - 1971 (circa).
Comments: Former dry cleaner; current use needs verification.
Updated Date: 01/14/2002
Updated By: dmc
Decode for OpstatID: Inactive
Operations SIC Id: 197727
SIC Code: 7216
Created By: Not reported
Created Date: 12/17/2002

VCS:
Name: CAPITOL CLEANERS (FORMER) - 3RD ST.
Address: SE 3RD ST. (BETWEEN WILLOW & VINE)
City,State,Zip: BEND, OR 97701
ECS Site ID: 3253
Facility Size: Not reported
Action: Independent Cleanup Program
Start Date: 11/01/2012
End Date: 11/14/2012
Program: ICP
Latitude: 44.0462
Longitude: -121.3028
Primary Action Flag: False
Investigation Code: NFA

Name: CAPITOL CLEANERS (FORMER) - 3RD ST.
Address: SE 3RD ST. (BETWEEN WILLOW & VINE)
City,State,Zip: BEND, OR 97701
ECS Site ID: 3253
Facility Size: Not reported
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 11/14/2012
End Date: 11/14/2012
Program: ICP
Latitude: 44.0462
Longitude: -121.3028
Primary Action Flag: True
Investigation Code: NFA

F26 **CARRERA MOTORS** **OR ECSI S119161957**
WNW **1045 SE 3RD ST** **OR VCP N/A**
1/2-1 **BEND, OR 97702**
0.686 mi.
3624 ft. **Site 1 of 2 in cluster F**

Relative:
Lower

Actual:
3711 ft.

ECSI:

Name:	CARRERA MOTORS
Address:	1045 SE 3RD ST
City,State,Zip:	BEND, OR 97702
State ID Number:	1955
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	20793
Further Action:	0
Lat/Long (dms):	44 2 24.40 / -121 18 14.40
County Code:	9.00
Score Value:	0
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	5
Qtr Section:	DD
Tax Lots:	Not reported
Size:	2.5 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	01/14/2004
Created Date:	11/06/1996
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Hazardous Release:

Substance ID.:	122008
Haz Release ID:	379765
Qty Released:	Unknown
Date Released:	Unknown
Update Date:	04/23/2001
Update By:	Not reported
Substance Code:	ECD266
Substance Name:	TOTAL HYDROCARBONS (AS DIESEL)
Substance Abbrev.:	Not reported
Substance Category ID:	8539
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8539
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported

CARRERA MOTORS (Continued) **S119161957**

Created Date: 12/17/2002
Sampling Result ID: 338467
Feature Id: Not reported
Hazard Release Id: 379765
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/01/2001
End Date: 03/01/2001
Min Concentration: .00
Max Concentration: 1871.00
Sample Comment: 1,871 ppm diesel/Heavy Oil B-1
Last Update By: jdk
Update Date: 04/23/2001
Decode for MediumID: Soil
Sampling Result ID: 338468
Feature Id: Not reported
Hazard Release Id: 379765
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/01/2001
End Date: 03/01/2001
Min Concentration: .00
Max Concentration: 341.80
Sample Comment: 341.8 ppm diesel/Heavy Oil B-4
Last Update By: jdk
Update Date: 04/23/2001
Decode for MediumID: Soil
Sampling Result ID: 337615
Feature Id: Not reported
Hazard Release Id: 379765
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/01/2001
End Date: 03/01/2001
Min Concentration: .00
Max Concentration: 114.00
Sample Comment: 114 ppm diesel/Heavy Oil B-7
Last Update By: jdk
Update Date: 04/23/2001
Decode for MediumID: Soil

Substance ID.: 121167

CARRERA MOTORS (Continued) **S119161957**

Haz Release ID: 379766
Qty Released: Unknown
Date Released: Unknown
Update Date: 04/23/2001
Update By: Not reported
Substance Code: 191-24-2
Substance Name: BENZO(ghi)PERYLENE
Substance Abbrev.: Not reported
Substance Alias ID: 317305
Sub Alias Name: B(ghi)P
Substance Alias ID: 317306
Sub Alias Name: BENZOPERYLENE,1,12-
Substance Alias ID: 317307
Sub Alias Name: BENZPERYLENE,1,12-
Sampling Result ID: 338469
Feature Id: Not reported
Hazard Release Id: 379766
Medium: 703
Substance Abbrev.: Not reported
Unit Code: 7
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 03/01/2001
End Date: 03/01/2001
Min Concentration: .00
Max Concentration: .09
Sample Comment: 0.096 ppm max B-1
Last Update By: jdk
Update Date: 04/23/2001
Decode for MediumID: Soil

Narrative:
NARR ID: 5736377
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (2/2/98 DMC/SAS) Consultant letter to DEQ dated 2/22/91 noted <quot>a 275-gallon AST used for waste oil has evidence of spills and surrounding blackened vegetation from previous problems...(AST) is located behind the <quot>Trans Tech<quot> building along the north of the property.<quot> (4/23/01 KJR/VCS) The site consists of four buildings housing an automotive parts, service, and detail shop and automotive showrooms.

NARR ID: 5736378
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: waste oil

CARRERA MOTORS (Continued) **S119161957**

NARR ID: 5736379
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Above-ground storage tank (AST); time of release unknown.

NARR ID: 5736380
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (1/18/01 KJR/SAS) A 2/22/91 Geofax report that was submitted to DEQ indicated the potential of a release of waste oil from a 275-gallon above-ground storage tank (AST). The site was recommended for a screening. DEQ contacted the facility in October 1999 and learned from an employee that the AST and adjacent building had been removed and a new facility uonstructed on top of the former AST location. DEQ sent an information request to the facility in October 1999 asking for information about the AST's removal, and received no response. Given the limited nature of the observed impact, the AST's removal, and a building being constructed on top of the AST location, the site is recommended as a low priority for further action. (4/23/01 KJR/VCS) During a Feb. 2001 Phase-I investigation, the former AST was determined in fact to not have been covered with the new building. PBS Environmental performed the Phase I, and did not identify environmental concerns at the site. Based on documentation submitted with the facility's participation in DEQ's ICP Program, no further action appears needed at the site.

Administrative Action:
Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 11/06/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action

CARRERA MOTORS (Continued) **S119161957**

Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 04/23/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 04/19/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9435
Region: Eastern Region
Complete Date: 04/23/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Eastern Region
Complete Date: 01/18/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False

CARRERA MOTORS (Continued) **S119161957**

Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9470
Region: Eastern Region
Complete Date: 01/18/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: Low
Comments: Not reported

Operations:
Operation Id: 133233
Operation Status: Active
Common Name: Carrera Motors
Yrs of Operation: Unknown.
Comments: Car dealership.
Updated Date: 03/02/1999
Updated By: dmc
Decode for OpstatID: Active
Operations SIC Id: 196428
SIC Code: 5511
Created By: Not reported
Created Date: 12/17/2002

VCS:
Name: CARRERA MOTORS
Address: 1045 SE 3RD ST
City,State,Zip: BEND, OR 97702
ECS Site ID: 1955
Facility Size: 2.5 acres
Action: Independent Cleanup Program
Start Date: 04/19/2001
End Date: 04/23/2001
Program: VCS
Latitude: 44.0401
Longitude: -121.304
Primary Action Flag: False
Investigation Code: NFA

Name: CARRERA MOTORS
Address: 1045 SE 3RD ST
City,State,Zip: BEND, OR 97702
ECS Site ID: 1955
Facility Size: 2.5 acres
Action: Letter Agreement
Start Date: 04/16/2001
End Date: 04/19/2001
Program: VCS
Latitude: 44.0401

CARRERA MOTORS (Continued) **S119161957**

Longitude:	-121.304
Primary Action Flag:	False
Investigation Code:	NFA
Name:	CARRERA MOTORS
Address:	1045 SE 3RD ST
City,State,Zip:	BEND, OR 97702
ECS Site ID:	1955
Facility Size:	2.5 acres
Action:	NO FURTHER STATE ACTION REQUIRED
Start Date:	04/20/2001
End Date:	04/23/2001
Program:	ICP
Latitude:	44.0401
Longitude:	-121.304
Primary Action Flag:	True
Investigation Code:	NFA

F27 **CARRERA MOTORS - UIC DECOMMISSIONING** **OR ECSI** **S119161997**
WNW **1045 SE 3RD ST** **OR VCP** **N/A**
1/2-1 **BEND, OR 97702**
0.686 mi.
3624 ft. **Site 2 of 2 in cluster F**

Relative: **Lower**

Actual: **3711 ft.**

ECSI:

Name:	CARRERA MOTORS - UIC DECOMMISSIONING
Address:	1045 SE 3RD ST
City,State,Zip:	BEND, OR 97702
State ID Number:	4412
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	20793
Further Action:	0
Lat/Long (dms):	44 2 24.40 / -121 18 14.40
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	5
Qtr Section:	DD
Tax Lots:	203, 300
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	DCROUSE
Update Date:	07/21/2006
Created Date:	05/13/2005
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

CARRERA MOTORS - UIC DECOMMISSIONING (Continued) **S119161997**

Narrative:
NARR ID: 5746624
NARR Code: Contamination
Created By: DCROUSE
Created Date: 05/13/2005
Updated By: DCROUSE
Updated Date: 05/13/2005
Decode for NarcdID: Contamination
NARR Comments: (5/13/05 DMC/SAS) Further action for a UIC removal was forwarded to ER/SAS by DEQ HQ staff.

NARR ID: 5746626
NARR Code: Data Sources
Created By: DCROUSE
Created Date: 05/13/2005
Updated By: DCROUSE
Updated Date: 05/13/2005
Decode for NarcdID: Data Sources
NARR Comments: 1. UIC Closure document (5/2/05).

NARR ID: 5746625
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 05/13/2005
Updated By: TSCOTT
Updated Date: 02/27/2006
Decode for NarcdID: Remedial Action
NARR Comments: (5/13/05 DMC/SAS) Recommend RP join DEQ's Voluntary Cleanup Program (VCP). (2/27/06 NTS/VCP) DW-3 decommissioned - 75 cy of PCS removed, DW-2, W-DW catch basins cleaned out, O/W separator replaced, approx. 1.6 tons of PCS removed from these units.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 05/13/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/13/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Eastern Region
Complete Date: 06/02/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 05/13/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False

CARRERA MOTORS - UIC DECOMMISSIONING (Continued) **S119161997**

Action: NEGOTIATIONS
Further Action: 0
Comments: Not reported

Action ID: 9435
Region: Eastern Region
Complete Date: 02/27/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/26/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 06/02/2005
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/26/2005
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 02/27/2006
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/27/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 135080
Operation Status: Active
Common Name: Carrera Motors
Yrs of Operation: Not reported
Comments: car dealership
Updated Date: 05/13/2005
Updated By: DCROUSE
Decode for OpstatID: Active
Operations SIC Id: 198579
SIC Code: 5599
Created By: DCROUSE

CARRERA MOTORS - UIC DECOMMISSIONING (Continued) **S119161997**

Created Date: 05/13/2005

VCS:

Name:	CARRERA MOTORS - UIC DECOMMISSIONING
Address:	1045 SE 3RD ST
City,State,Zip:	BEND, OR 97702
ECS Site ID:	4412
Facility Size:	Not reported
Action:	Independent Cleanup Program
Start Date:	06/02/2005
End Date:	02/27/2006
Program:	VCS
Latitude:	44.0401
Longitude:	-121.304
Primary Action Flag:	False
Investigation Code:	NFA

Name:	CARRERA MOTORS - UIC DECOMMISSIONING
Address:	1045 SE 3RD ST
City,State,Zip:	BEND, OR 97702
ECS Site ID:	4412
Facility Size:	Not reported
Action:	Letter Agreement
Start Date:	05/16/2005
End Date:	06/02/2005
Program:	VCS
Latitude:	44.0401
Longitude:	-121.304
Primary Action Flag:	False
Investigation Code:	NFA

Name:	CARRERA MOTORS - UIC DECOMMISSIONING
Address:	1045 SE 3RD ST
City,State,Zip:	BEND, OR 97702
ECS Site ID:	4412
Facility Size:	Not reported
Action:	NEGOTIATIONS
Start Date:	05/13/2005
End Date:	06/02/2005
Program:	VCS
Latitude:	44.0401
Longitude:	-121.304
Primary Action Flag:	False
Investigation Code:	NFA

Name:	CARRERA MOTORS - UIC DECOMMISSIONING
Address:	1045 SE 3RD ST
City,State,Zip:	BEND, OR 97702
ECS Site ID:	4412
Facility Size:	Not reported
Action:	NO FURTHER STATE ACTION REQUIRED
Start Date:	02/27/2006
End Date:	02/27/2006
Program:	VCS
Latitude:	44.0401
Longitude:	-121.304
Primary Action Flag:	True

CARRERA MOTORS - UIC DECOMMISSIONING (Continued) **S119161997**

Investigation Code: NFA

28
West
1/2-1
0.733 mi.
3870 ft.

CASCADE CLEANERS - DIVISION ST
1155 SW DIVISION ST
BEND, OR 97702

OR ECSI **1006852746**
FINDS **N/A**

Relative:
Lower

Actual:
3725 ft.

ECSI:

Name:	CASCADE CLEANERS - DIVISION ST.
Address:	1155 SW DIVISION ST.
City,State,Zip:	BEND, OR 97701
State ID Number:	2958
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	41177
Further Action:	0
Lat/Long (dms):	44 2 15.20 / -121 18 14.83
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	5
Qtr Section:	DD
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	03/09/2012
Created Date:	02/21/2001
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5741018
NARR Code:	Contamination
Created By:	Not reported
Created Date:	12/17/2002
Updated By:	Not reported
Updated Date:	12/17/2002
Decode for NarcdID:	Contamination
NARR Comments:	(2/20/01 DMC/SAS) Site added to database for tracking purposes as a dry cleaner. (10/12/01 JM/HW) Cascade's cleaning plant has always been a wet process with Exxon DF 2000 backup. This facility has always had an excellent compliance record.

NARR ID:	5741019
NARR Code:	Data Sources

CASCADE CLEANERS - DIVISION ST (Continued) **1006852746**

Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: 1. Bend Community Phone Directory (2000-01).

NARR ID: 5741020
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: Suite B-14

NARR ID: 5741021
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (11/8/01 DMC/SAS) According to ER/HW staff, this is a newer facility with a great compliance record. No further action recommended by Site Assessment, site referred to ER/HW.

Administrative Action:
Action ID: 9443
Region: Eastern Region
Complete Date: 11/08/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9478
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Refer to RCRA Program
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Eastern Region

CASCADE CLEANERS - DIVISION ST (Continued) **1006852746**

Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 02/21/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Low
Comments: Not reported

Operations:
Operation Id: 134151
Operation Status: Active
Common Name: Cascade Cleaners - Division ST
Yrs of Operation: 2000 to present (circa).
Comments: Dry cleaner.
Updated Date: 02/21/2001
Updated By: dmc
Decode for OpstatID: Active
Operations SIC Id: 197451
SIC Code: 7216
Created By: Not reported
Created Date: 12/17/2002

FINDS:
Registry ID: 110014147823

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Oregon Department of Environmental Quality (DEQ) is a regulatory agency tasked with protecting the quality of Oregon's environment. DEQ uses a combination of technical assistance, inspections, and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

29
South
1/2-1
0.813 mi.
4292 ft.

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY
18S/12E/S9D & 16A
BEND, OR 97702

OR CRL
OR ECSI
OR VCP
FINDS

1006853781
N/A

Relative:
Higher

Actual:
3731 ft.

CRL:

Name:	BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY
Address:	18S/12E/S9D & 16A
City,State,Zip:	BEND, OR 97702
Facility ID:	2060
Location ID:	40554
Status Code:	LIS
Facility Status:	Other remedial or investigative action recommended
Lat/Long:	44.0244 / -121.2881

ECSI:

Name:	BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY
Address:	18S/12E/S9D & 16A
City,State,Zip:	BEND, OR 97702
State ID Number:	2060
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	831
Investigation:	Listed on the CRL/Inventory
FACA ID:	40554
Further Action:	259
Lat/Long (dms):	44 1 28.00 / -121 17 17.50
County Code:	9.00
Score Value:	86
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	9
Qtr Section:	DC
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	CWALKEY
Update Date:	06/11/2008
Created Date:	06/10/1997
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Medium-Low
Decode For Investstat:	Listed on the CRL/Inventory
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name:	BNRR - Bend Right-Of-Way
Alias Name:	Burlington Northern RR Right-Of-Way

Hazardous Release:

Substance ID.:	121981
Haz Release ID:	381036
Qty Released:	unknown
Date Released:	unknown

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Update Date: 11/06/1997
Update By: Not reported
Substance Code: ECD168
Substance Name: BUNKER - FUEL OIL
Substance Abbrev.: Not reported
Substance Category ID: 8527
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8527
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 343889
Feature Id: Not reported
Hazard Release Id: 381036
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Not reported
Last Update By: dmc
Update Date: 06/11/1997
Decode for MediumID: Soil

Substance ID.: 122012
Haz Release ID: 381710
Qty Released: unknown
Date Released: unknown
Update Date: 08/07/1998
Update By: Not reported
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 337580
Feature Id: Not reported
Hazard Release Id: 381710
Medium: 703

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: True
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 24000 mg/kg (up to)
Last Update By: dmc
Update Date: 07/08/1998
Decode for MediumID: Soil

Narrative:

NARR ID: 5736959
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (6/6/97 WCW/VCS) Site is adjacent to the Lynne Perlatti Property (ECSI #1247), and is contaminated with Bunker C oils (visible at the surface).

NARR ID: 5736960
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: 1. Analytical data (including chromatograph). 2. VCS project manager files.

NARR ID: 5736961
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Bunker C oil.

NARR ID: 5736962
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: 18S/12E/SW 1/4 of section 9 and the NE 1/4 of section 16.

NARR ID: 5736963
NARR Code: Manner of Release
Created By: Not reported

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Past business practices; time of release unknown.

NARR ID: 5736964
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Adjacent lands will be developed into residential zones.

NARR ID: 5736965
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (6/6/97 WCW/VCS) Referred to ER/SAS; options letter recommended. (6/17/97 JPD/SAS) SAS Information Request letter sent; response requested within 14 days of postmark. (9/4/97 JPD/SAS) RP will perform an XPA and submit a copy of the final report to DEQ. (6/3/98 JPD/SAS) On 4/28/98, GeoEngineers completed an expanded preliminary assessment for the right-of-way and submitted it to DEQ for review. Based on the results of the investigations at the Perlatti site (ECSI #1247), this investigation focused on shallow groundwater contamination. A total of 20 test pits were excavated at the site. Tar-like material was encountered in 9 of the test pits, and was observed in an area 300-400 feet long and approximately 1 foot thick. The maximum observed depth of the tar-like material was approximately 2 feet below grade. Selected soil samples were analyzed for total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs), and metals. Concentrations of TPH ranged up to 24000 mg/kg. Concentrations of SVOCs were found to be below SOCLEAN standards; however, the detection limits for some compounds exceeded the cleanup limit in several samples. Metal concentrations were found to be below applicable SOCLEAN standards with the exception of arsenic, which exceeded the residential standard in 4 samples. A comparison of these values to statewide average values suggests the arsenic may be naturally occurring. SAS has reviewed the file information relating to this site. Based on the available information, SAS has scored this facility as a high priority for further action. This site will be recommended for the Confirmed Release List (CRL) and Inventory and will be referred to the Voluntary Cleanup Program (VCP) for further action. (6/2/00 WCW/VCS) The Agreement for participation in DEQ's Voluntary Cleanup Program was terminated by DEQ, by letter dated 6/2/2000. Recommend further investigation and remediation.

Administrative Action:
Action ID: 9467
Region: Eastern Region
Complete Date: 08/31/1998
Rank Value: 0
Cleanup Flag: False

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Eastern Region
Complete Date: 08/31/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 08/10/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Eastern Region
Complete Date: 11/23/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Eastern Region
Complete Date: 11/23/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Facility placed on Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9491
Region: Eastern Region
Complete Date: 12/01/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Not reported

Action ID: 9520
Region: Eastern Region
Complete Date: 06/08/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: EXPANDED PRELIMINARY ASSESSMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9503
Region: Eastern Region
Complete Date: 06/08/1998
Rank Value: 86
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Remedial Investigation/Feasibility Study recommended
Further Action: High
Comments: Not reported

Action ID: 9437
Region: Eastern Region
Complete Date: 06/08/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Eastern Region
Complete Date: 06/08/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Eastern Region
Complete Date: 06/08/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Eastern Region
Complete Date: 06/02/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9510
Region: Eastern Region
Complete Date: 08/20/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Category: Remedial Action
Action Code Flag: False
Action: State Expanded Preliminary Assessment recommended (XPA)
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Eastern Region
Complete Date: 06/08/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 06/10/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Eastern Region
Complete Date: 08/20/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9470
Region: Eastern Region
Complete Date: 06/02/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Other remedial or investigative action recommended
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 133327
Operation Status: Active
Common Name: Burlington Northern RR Right-Of-Way
Yrs of Operation: Unknown.
Comments: Railroad right-of-way.
Updated Date: 07/28/1997
Updated By: dmc
Decode for OpstatID: Active
Operations SIC Id: 196508
SIC Code: 4011
Created By: Not reported
Created Date: 12/17/2002

VCS:
Name: BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY
Address: 18S/12E/S9D & 16A
City,State,Zip: BEND, OR 97702
ECS Site ID: 2060
Facility Size: Not reported
Action: Letter Agreement
Start Date: 08/10/1998
End Date: 08/10/1998
Program: VCS
Latitude: 44.0244
Longitude: -121.2881
Primary Action Flag: False
Investigation Code: LIS

Name: BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY
Address: 18S/12E/S9D & 16A
City,State,Zip: BEND, OR 97702
ECS Site ID: 2060
Facility Size: Not reported
Action: REMOVAL
Start Date: 11/16/1998
End Date: 12/01/1998
Program: VCS

BURLINGTON NORTHERN RR - BEND RIGHT-OF-WAY (Continued) **1006853781**

Latitude: 44.0244
Longitude: -121.2881
Primary Action Flag: False
Investigation Code: LIS

FINDS:
Registry ID: 110014159631

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Oregon Department of Environmental Quality (DEQ) is a regulatory agency tasked with protecting the quality of Oregon's environment. DEQ uses a combination of technical assistance, inspections, and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

G30 **ORDNANCE SER COMMAND SHOP** **FUDS** **1024901202**
NW **N/A**
1/2-1 **BEND, OR**
0.816 mi.
4309 ft. **Site 1 of 2 in cluster G**

Relative:
Lower

Actual:
3696 ft.

FUDS:

EPA Region:	10
Installation ID:	OR09799F307400
Congressional District Number:	5
Name:	ORDNANCE SER COMMAND SHOP
FUDS Number:	F10OR0158
City:	BEND
State:	OR
County:	DESCHUTES
Object ID:	3611
USACE Division:	NWD
USACE District:	Kansas City District (NWK)
Status:	Properties without projects
Current Owner:	PRIV: PRIVATE
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=59909
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not reported
Project Required:	No
Feature Description:	Executive Order 9133, dated 17 April 1942, transferred numerous motor repair shops, including the Bend Ordnance Service Command Shop, from the Civilian Conservation Corps to the War Dept. A total of 39.703 acres were acquired through lease, transfer and permit including the existing storage, office, mess hall and shop buildings. The site was used by the Army as an automotive repair and inspection shop. In 1946, 3.189 acres were relinquished to the U.S. Forest Service (USFS), and the leases and permit were terminated. Presently the site is used for automotive repair by USFS. All of the buildings associated with the military use are either in use or have been removed.
Latitude:	44.04472222
Longitude:	-121.30388889

31
NW
1/2-1
0.841 mi.
4440 ft.

CENTRAL OREGON DRYCLEANERS
415 SE 3RD ST.
BEND, OR 97701

OR ECSI **S105005071**
OR VCP **N/A**

Relative:
Lower

Actual:
3684 ft.

ECSI:

Name:	CENTRAL OREGON DRYCLEANERS
Address:	415 SE 3RD ST.
City,State,Zip:	BEND, OR 97701
State ID Number:	2962
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	2405
Further Action:	0
Lat/Long (dms):	44 2 45.60 / -121 18 10.10
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	5
Qtr Section:	AD
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	11/21/2012
Created Date:	02/21/2001
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported
Alias Name:	Nelson Laundries & Dry Cleaners - South

Narrative:

NARR ID:	5741034
NARR Code:	Contamination
Created By:	Not reported
Created Date:	12/17/2002
Updated By:	Not reported
Updated Date:	12/17/2002
Decode for NarcdID:	Contamination
NARR Comments:	(2/20/01 DMC/SAS) Site added to database for tracking purposes as a dry cleaner. (10/12/01 JM/HW) Main cleaning plant for the chain. Perc plant with excellent compliance history. Site also includes Nelson's Laundry & Dry Cleaners, which is listed at a separate address, but is not a separate cleaning site.

NARR ID:	5741035
NARR Code:	Data Sources
Created By:	Not reported
Created Date:	12/17/2002

CENTRAL OREGON DRYCLEANERS (Continued) **S105005071**

Updated By: DCROUSE
Updated Date: 12/13/2006
Decode for NarcdID: Data Sources
NARR Comments: 1. Bend Community Phone Directory (2000-01). 2. EPA Site Discovery List (5/4/90).

NARR ID: 5741036
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: Also listed at 407 SE 3rd ST

NARR ID: 5741037
NARR Code: Site Ownership
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Ownership
NARR Comments: Site also includes Nelson Laundry & Dry Cleaners - South listed at 407 SE 3rd ST. Sites appear as separate dry cleaners on EPA's 1990 Site Discovery List.

NARR ID: 5741038
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (2/20/01 DMC/SAS) Site added to database for tracking purposes as a dry cleaner. (11/8/01 DMC/SAS) According to ER/HW staff, site handles perc, but also has an excellent compliance history. Low priorty for further action to ensure compliance history covers the complete operating history for the site.

NARR ID: 5754305
NARR Code: 1922
Created By: DANDERS
Created Date: 11/14/2012
Updated By: DANDERS
Updated Date: 11/14/2012
Decode for NarcdID: Current Site Summary Statement
NARR Comments: The building at the Site is a multi-tenant structure constructed in the early 1950s (Tax Lot 4500). The building has historically been divided into up to three tenant space (407,415, and 417 SE Third St.). Central Oregon Dry Cleaners operated in the center space (415 SE Third St.) from the late 1970s until 2010. Coincidentally, another, unrelated dry cleaning business operated in the space at 415 SE Third St. from the 1950s until the early 1970s under the name Capitol Cleaners. Work completed in 2011 documented low levels of chlorinated solvent contamination in soil and a dry well completed in the southwest corner of the parking lot had minor amounts of petroleum hydrocarbons within sediments at the bottom of the drill

CENTRAL OREGON DRYCLEANERS (Continued) **S105005071**

hole. None of the contamination was detected above DEQ risk- based concentrations (RBCs) for applicable exposure pathways and the Site is protective of human health and the environment.

Administrative Action:
Action ID: 9435
Region: Eastern Region
Complete Date: 11/14/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/01/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 10/30/2012
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/01/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Not reported

Action ID: 9409
Region: 0
Complete Date: 11/14/2012
Rank Value: Not reported
Cleanup Flag: True
Created Date: 11/14/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Beneficial Water Use Assessment
Further Action: 0
Comments: Not reported

Action ID: 9436
Region: 0
Complete Date: 11/14/2012
Rank Value: Not reported
Cleanup Flag: True
Created Date: 11/14/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Land-Use Assessment

CENTRAL OREGON DRYCLEANERS (Continued) **S105005071**

Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 11/14/2012
Rank Value: Not reported
Cleanup Flag: True
Created Date: 11/14/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9478
Region: Headquarters
Complete Date: 07/24/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: Refer to RCRA Program
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 02/21/2001
Rank Value: 2
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Medium

CENTRAL OREGON DRYCLEANERS (Continued) **S105005071**

Comments: Not reported

Operations:
Operation Id: 134155
Operation Status: Active
Common Name: Central Oregon Drycleaners
Yrs of Operation: 1990 to present (circa).
Comments: Dry cleaner.
Updated Date: 11/14/2001
Updated By: dmc
Decode for OpstatID: Active
Operations SIC Id: 197455
SIC Code: 7216
Created By: Not reported
Created Date: 12/17/2002

VCS:
Name: CENTRAL OREGON DRYCLEANERS
Address: 415 SE 3RD ST.
City,State,Zip: BEND, OR 97701
ECS Site ID: 2962
Facility Size: Not reported
Action: Independent Cleanup Program
Start Date: 11/01/2012
End Date: 11/14/2012
Program: ICP
Latitude: 44.046
Longitude: -121.3028
Primary Action Flag: False
Investigation Code: NFA

Name: CENTRAL OREGON DRYCLEANERS
Address: 415 SE 3RD ST.
City,State,Zip: BEND, OR 97701
ECS Site ID: 2962
Facility Size: Not reported
Action: Letter Agreement
Start Date: 10/30/2012
End Date: 10/30/2012
Program: VCP
Latitude: 44.046
Longitude: -121.3028
Primary Action Flag: False
Investigation Code: NFA

Name: CENTRAL OREGON DRYCLEANERS
Address: 415 SE 3RD ST.
City,State,Zip: BEND, OR 97701
ECS Site ID: 2962
Facility Size: Not reported
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 11/14/2012
End Date: 11/14/2012
Program: ICP
Latitude: 44.046
Longitude: -121.3028
Primary Action Flag: True

CENTRAL OREGON DRYCLEANERS (Continued) **S105005071**

Investigation Code: NFA

G32 **BEND SCHOOL DISTRICT - TRANSPORTATION** **OR ECSI** **U000437792**
NW **501 SE 2ND ST** **OR LUST** **N/A**
1/2-1 **BEND, OR 97702** **OR UST**
0.848 mi. **OR AST**
4479 ft. **Site 2 of 2 in cluster G** **OR HSIS**

Relative:
Lower

Actual:
3690 ft.

ECSI:

Name:	BEND/LA PINE SCHOOL DIST. TRANSPORTATION - UIC
Address:	501 SE 2ND ST
City,State,Zip:	BEND, OR 97702
State ID Number:	4207
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	20363
Further Action:	0
Lat/Long (dms):	44 2 44.88 / -121 18 11.88
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	4
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	DCROUSE
Update Date:	05/29/2009
Created Date:	09/13/2004
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported

Narrative:

NARR ID:	5745448
NARR Code:	Contamination
Created By:	DCROUSE
Created Date:	09/13/2004
Updated By:	DCROUSE
Updated Date:	09/13/2004
Decode for NarcdID:	Contamination

NARR Comments: (9/13/04 DMC/SAS) Site referred to ER/SAS for tracking after a complaint concerning old USTs/septic tanks filled with oil also resulted in the discovery of 3 dry wells/drill holes. Low levels of total petroleum hydrocarbons and metals were detected in soil samples. TPH diesel range 72.12 mg/kg, heavy 198 mg/kg; in 18 ft BGS, GW at 150 ft BGS, drill hole #1 72.3 mg/kg heavy oil 198 mg/kg, gasoline range in #2 gas, #2 280 mg/kg gas (kerosene) drill hole can

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

be abandoned (jeff conferred with Cliff)

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 09/13/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/13/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 09/13/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/13/2004
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: 0
Comments: Not reported

LUST:
Name: BEND SCHOOL DISTRICT - TRANSPORTATION
Address: 501 SE 2ND ST
City,State,Zip: BEND, OR 97702
Region: Eastern Region
Facility ID: 09-99-0050
Cleanup Received Date: 10/14/1999
Cleanup Start Date: 10/07/1999
Cleanup Complete Date: 11/28/2000
Decode for Region: East Region

Name: BEND SCHOOL DISTRICT - TRANSPORTATION
Address: 501 SE 2ND ST
City,State,Zip: BEND, OR 97702
Region: Eastern Region
Facility ID: 09-09-0706
Cleanup Received Date: 07/31/2009
Cleanup Start Date: 07/31/2009
Cleanup Complete Date: 10/18/2010
Decode for Region: East Region

UST:
Name: BEND SCHOOL DISTRICT - TRANSPORTATION
Address: 501 SE 2ND ST
City: BEND
Facility ID: 3533

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Facility Telephone: (541) 383-6103
Permittee Name: Keith Bowers, Operations
Number of Permitted Tanks: 2
Active Tanks: 2
Decommissioned Tanks: 1
Number of Tanks: 3

AST:

Facility ID:	21250
Name:	BEND-LAPINE SCHOOL DIST 1
Address:	501 SE 2ND ST
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	JAY
Direct Site Phone:	5413555700
Report Class:	Annual
Report Year:	2019
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	SCHOOL BUS GARAGE
NAICS Code:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	Yes
Facility ID:	21250
Name:	BEND-LAPINE SCHOOL DIST 1
Address:	501 SE 2ND ST
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Lora
Direct Site Phone:	15413555732
Report Class:	Annual
Report Year:	2020
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	SCHOOL BUS GARAGE
NAICS Code:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	Yes
Facility ID:	21250
Name:	BEND-LAPINE SCHOOL DIST 1
Address:	501 SE 2ND ST
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	JAY
Direct Site Phone:	5413555700
Report Class:	Annual
Report Year:	2017
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	SCHOOL BUS GARAGE
NAICS Code:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	Yes
Facility ID:	21250
Name:	BEND-LAPINE SCHOOL DIST 1
Address:	501 SE 2ND ST
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	JAY
Direct Site Phone:	5413555700
Report Class:	Annual
Report Year:	2018
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	SCHOOL BUS GARAGE
NAICS Code:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	Yes
Facility ID:	21250
Name:	BEND-LAPINE SCHOOL DIST 1
Address:	501 SE 2ND ST
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	JAY
Direct Site Phone:	5413555700
Report Class:	Annual(Revision)
Report Year:	2017
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	SCHOOL BUS GARAGE
NAICS Code:	Not reported
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	Yes
Facility ID:	21250
Name:	BEND-LAPINE SCHOOL DIST 1
Address:	501 SE 2ND ST
City,State,Zip:	BEND, OR 97702
Substance:	PROPANE
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Lora
Direct Site Phone:	15413555732
Report Class:	Annual
Report Year:	2021
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	ACTIVE
Nature of Business:	SCHOOL BUS GARAGE
NAICS Code:	"921190,611110"
Maximum Daily Amount Code:	20
Maximum Daily Amount Code Range:	1,000-4,999
Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	No
Is Gaseous State:	Yes
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	Yes
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	No
Is Carcinogenicity:	No
Is Germ Cell Mutagenicity:	No

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	No
Is Specific Target Organ Toxicity:	Yes

HSIS:

Name:	BEND-LAPINE SCHOOL DIST 1
Address:	501 SE 2ND ST
City,State,Zip:	BEND, OR 97702
Facility ID:	021250
Department Or Division Of Company:	BUS GARAGE
Chemical Is Extremely Hazardous Substance (EHS:	N
Contains 112R:	N
Facility Has Written Emergency Plan:	Y
NAICS Code 1:	611110
NAICS Desc 1:	ELEMENTARY & SECONDARY SCHOOLS
NAICS Code 2:	485410
NAICS Desc 2:	SCHOOL & EMPLOYEE BUS TRANS
Manager Name:	JAY MATHISEN
Business Phone:	5413555700
Mailing Address:	501 SE 2ND ST
Mailing City:	BEND
Mailing State:	OR
Mailing Zip:	97702
No. of Employees:	97
Day Phone:	5413555732
Placard:	Y
Fire Dept Code:	0024
FD:	BEND FD
Sprinkler System:	N
Emergency Contact:	KEITH BOWERS
Emergency Procedure:	DRIVER PREP ROOM
Business Type:	SCHOOL BUS GARAGE
Facility Type:	Not reported
Department:	Not reported
Status:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Status TRI:	Not reported
Status RMP:	Not reported
Status PSM:	Not reported
Status CR2K:	Not reported
Status 302:	Not reported
Owner Name:	Not reported
Last Reported ID:	Not reported
Maximum Daily Amount Range:	Not reported
Case Number:	Not reported
Chemical Name:	Not reported
EHS Name:	Not reported
Is Pure:	Not reported
Is Mix:	Not reported
Is EHS:	Not reported
Mixture Component:	Not reported
Maximum Daily Amount Code:	Not reported

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Maximum Daily Amount Unit:	Not reported
Chemical Added Date:	Not reported
Is Chem PSM:	Not reported
Is Chem 112R:	Not reported
Is Chem 302:	Not reported
Is Pesticide:	Not reported
Is Fertilizer:	Not reported
Physical State:	Not reported
UNNA Number:	Not reported
NFPA Health:	Not reported
NFPA Flammability:	Not reported
NFPA Reactivity:	Not reported
NFPA Special Notice:	Not reported
Hazards:	Not reported
Number of Days Onsite:	Not reported
Year:	Not reported

Chemical:

Chemical Name:	1-B SOAP
Physical Description:	LIQUID
Case Number:	7664393
Facility Id:	021250
Physical State Of The Substance:	2
Average Amount Possessed During The Year Code:	04
Maximum Amount Possessed During The Year Code:	04
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	E
Description:	PLASTIC OR NON-METALLIC DRUM
Type Code:	A
Temperature Description:	ABOVEGROUND TANK
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	50-199
Description Of The Avg Qnty Code:	50-199
Most Hazardous Ingridient:	HYDROFLUORIC ACID
United Nations/north America 4 Digit Class Number:	1760
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Poisonous Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	6.1
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Additional Chemical:

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Chemical Is A Toxic 313 Chemical:	N
EPA Pesticide Registration Number:	Not reported
Contains 112R:	Y
Contains EHS:	Y
Fertilizer:	Not reported
Pesticide:	Not reported
Contains 313:	Y

Chemical Name:	GASOLINE UNLEADED
Physical Description:	LIQUID
Case Number:	000000
Facility Id:	021250
Physical State Of The Substance:	2
Average Amount Possessed During The Year Code:	21
Maximum Amount Possessed During The Year Code:	21
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	B
Description:	UNDERGROUND TANK
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	5,000-9,999
Description Of The Avg Qnty Code:	5,000-9,999
Most Hazardous Ingridient:	PETROLEUM DISTILLATES
United Nations/north America 4 Digit Class Number:	1203
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON MSDS
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Flammable and Combustible Liquid
Second Hazardous Class Code For Chemical:	Acute Health Hazard
Third Hazardous Class Code For Chemical:	Chronic Health Hazard
Hazard Class 1 Of The Chemical:	3.0
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	6.4

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	N
EPA Pesticide Registration Number:	Not reported
Contains 112R:	N
Contains EHS:	N
Fertilizer:	N
Pesticide:	N
Contains 313:	Y

Chemical Name:	PROPANE

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Physical Description:	GAS
Case Number:	74986
Facility Id:	021250
Physical State Of The Substance:	3
Average Amount Possessed During The Year Code:	20
Maximum Amount Possessed During The Year Code:	20
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	A
Description:	ABOVEGROUND TANK
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	2
Pressure Description:	GREATER THAN NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	1,000-4,999
Description Of The Avg Qnty Code:	1,000-4,999
Most Hazardous Ingridient:	PROPANE
United Nations/north America 4 Digit Class Number:	1075
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON SDS
Substance Pure:	True
Substance Mix:	False
First Hazardous Class Code For Chemical:	Flammable Gas
Second Hazardous Class Code For Chemical:	Acute Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	2.1
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	N
EPA Pesticide Registration Number:	Not reported
Contains 112R:	N
Contains EHS:	N
Fertilizer:	N
Pesticide:	N
Contains 313:	N

Chemical Name:	ANTIFREEZE
Physical Description:	LIQUID
Case Number:	107211
Facility Id:	021250
Physical State Of The Substance:	2
Average Amount Possessed During The Year Code:	10
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	A
Description:	ABOVEGROUND TANK

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Type Code:	D
Temperature Description:	STEEL DRUM
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	500-999
Description Of The Avg Qnty Code:	200-499
Most Hazardous Ingridient:	ETHYLENE GLYCOL
United Nations/north America 4 Digit Class Number:	3082
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Acute Health Hazard
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	6.3
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	N
EPA Pesticide Registration Number:	Not reported
Contains 112R:	N
Contains EHS:	N
Fertilizer:	N
Pesticide:	N
Contains 313:	Y

Chemical Name:	LEAD ACID BATTERIES
Physical Description:	SOLID
Case Number:	Not reported
Facility Id:	021250
Physical State Of The Substance:	1
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	R
Description:	OTHER
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	500-999
Description Of The Avg Qnty Code:	500-999
Most Hazardous Ingridient:	SULFURIC ACID
United Nations/north America 4 Digit Class Number:	2794
Hazard Rank:	4
EHS Ingredient:	SULFURIC ACID
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Acute Health Hazard
Second Hazardous Class Code For Chemical:	Corrosive Material
Third Hazardous Class Code For Chemical:	Chronic Health Hazard
Hazard Class 1 Of The Chemical:	6.3
Hazard Class 2 Of The Chemical:	8.0
Hazard Class 3 Of The Chemical:	6.4

Chemical Name:	ABX SOAP
Physical Description:	LIQUID
Case Number:	7664393
Facility Id:	021250
Physical State Of The Substance:	2
Average Amount Possessed During The Year Code:	04
Maximum Amount Possessed During The Year Code:	04
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	E
Description:	PLASTIC OR NON-METALLIC DRUM
Type Code:	A
Temperature Description:	ABOVEGROUND TANK
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	50-199
Description Of The Avg Qnty Code:	50-199
Most Hazardous Ingridient:	HYDROFLUORIC ACID
United Nations/north America 4 Digit Class Number:	1760
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Poisonous Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	6.1
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	N
EPA Pesticide Registration Number:	Not reported

BEND SCHOOL DISTRICT - TRANSPORTATION (Continued) **U000437792**

Contains 112R:	Y
Contains EHS:	Y
Fertilizer:	Not reported
Pesticide:	Not reported
Contains 313:	Y

Chemical Name:	DIESEL 2
Physical Description:	LIQUID
Case Number:	68476346
Facility Id:	021250
Physical State Of The Substance:	2
Average Amount Possessed During The Year Code:	21
Maximum Amount Possessed During The Year Code:	21
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	B
Description:	UNDERGROUND TANK
Type Code:	Not reported
Temperature Description:	Not reported
Pressure of Code:	1
Pressure Description:	NORMAL PRESSURE
Pressure of Code:	Not reported
Pressure Description:	Not reported
Temperature Description:	NORMAL TEMPERATURE
Temperature of The Hazardous Substance Code:	4
Temperature Description:	Not reported
Temperature of The Hazardous Substance Code:	Not reported
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	5,000-9,999
Description Of The Avg Qnty Code:	5,000-9,999
Most Hazardous Ingridient:	PETROLEUM DISTILLATES
United Nations/north America 4 Digit Class Number:	1993
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON MSDS
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Flammable and Combustible Liquid
Second Hazardous Class Code For Chemical:	Chronic Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	3.0
Hazard Class 2 Of The Chemical:	6.4
Hazard Class 3 Of The Chemical:	Not reported

Additional Chemical:

Chemical Is A Toxic 313 Chemical:	N
EPA Pesticide Registration Number:	Not reported
Contains 112R:	N
Contains EHS:	N
Fertilizer:	N
Pesticide:	N
Contains 313:	N

33
NW
1/2-1
0.889 mi.
4694 ft.

BEND ORDNANCE & SERVICE COMMAND SHOP
SE 2ND ST. & WILSON AVE. (NW CORNER)
BEND, OR 97702

OR ECSI **S106980841**
N/A

Relative:
Lower

Actual:
3685 ft.

ECSI:

Name:	BEND ORDNANCE & SERVICE COMMAND SHOP
Address:	SE 2ND ST. & WILSON AVE. (NW CORNER)
City,State,Zip:	BEND, OR 97702
State ID Number:	3358
Brown ID:	0
Study Area:	False
Region ID:	1
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	133818
Further Action:	260
Lat/Long (dms):	44 2 43.80 / -121 18 17.60
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	18.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	4
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	39.7 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	10/21/2014
Created Date:	06/25/2002
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Low
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported
Alias Name:	FUDS #F10OR0158

Narrative:

NARR ID:	5754847
NARR Code:	General Site Description
Created By:	GWISTAR
Created Date:	09/06/2013
Updated By:	GWISTAR
Updated Date:	09/06/2013
Decode for NarcdID:	General Site Description
NARR Comments:	Executive Order 9133, dated 4/17/42, transferred numerous motor repair shops, including the Bend Ordnance Service Command Shop, from the Civilian Conservation Corps to the War Dept. A total of 39.703 acres were acquired through lease, transfer and permit including the existing storage, office, mess hall and shop buildings. The site was used by the Army as an automotive repair and inspection shop. In 1946, 3.189 acres were relinquished to the U.S. Forest Service (USFS), and the leases and permit were terminated. Presently the site is used for automotive repair by USFS. All of the buildings associated with the military use are either in use or have been

BEND ORDNANCE & SERVICE COMMAND SHOP (Continued) **S106980841**

removed.

NARR ID: 5755310
NARR Code: 1922
Created By: GWISTAR
Created Date: 09/29/2014
Updated By: GWISTAR
Updated Date: 09/29/2014
Decode for NarcdID: Current Site Summary Statement
NARR Comments: [July 2010] The U.S. Forest Service apparently owns this formerly used defense site (FUDS) property; it is a low priority for DEQ follow-up.

Administrative Action:
Action ID: 9425
Region: Eastern Region
Complete Date: 06/30/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 02/24/2012
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9496
Region: Eastern Region
Complete Date: 07/01/2010
Rank Value: Not reported
Cleanup Flag: False
Created Date: 09/29/2014
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Low
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 06/25/2002
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/10/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Not reported

BEND ORDNANCE & SERVICE COMMAND SHOP (Continued) **S106980841**

Complete Date: 06/25/2002
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 134497
Operation Status: Inactive
Common Name: Bend Ordnance and Service Command Shop
Yrs of Operation: Not reported
Comments: Not reported
Updated Date: 06/25/2002
Updated By: tje
Decode for OpstatID: Inactive
Operations SIC Id: 197878
SIC Code: 9711
Created By: Not reported
Created Date: 12/17/2002

34
NNW
1/2-1
0.899 mi.
4748 ft.

CASCADE GYPSUM & BUILDING SUPPLY **OR ECSI** **S109913393**
689 SE GLENWOOD DR. **OR VCP** **N/A**
BEND, OR 97709

Relative:
Lower

Actual:
3694 ft.

ECSI:
Name: CASCADE GYPSUM & BUILDING SUPPLY
Address: 689 SE GLENWOOD DR.
City,State,Zip: BEND, OR 97709
State ID Number: 3464
Brown ID: 0
Study Area: False
Region ID: 1
Legislatve ID: 0
Investigation: No Further Action
FACA ID: 20087
Further Action: 0
Lat/Long (dms): 44 3 1.10 / -121 17 43.10
County Code: 9.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 18.00
Township Zone: S
Range Coord: 12.00
Range Zone: E
Section Coord: 4
Qtr Section: BAA
Tax Lots: Not reported
Size: Not reported
NPL: False
Orphan: False

CASCADE GYPSUM & BUILDING SUPPLY (Continued) **S109913393**

Updated By: GWISTAR
Update Date: 03/17/2015
Created Date: 09/10/2002
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported
Alias Name: Weigand Investments

Narrative:
NARR ID: 5743393
NARR Code: Remedial Action
Created By: DCROUSE
Created Date: 04/18/2003
Updated By: DCROUSE
Updated Date: 04/18/2003
Decode for NarcdID: Remedial Action
NARR Comments: (1/2/03 CW/VCS) Final NFA issued.

Administrative Action:
Action ID: 9443
Region: Eastern Region
Complete Date: 02/01/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/18/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9433
Region: Eastern Region
Complete Date: 02/01/2003
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action

CASCADE GYPSUM & BUILDING SUPPLY (Continued) **S109913393**

Action Code Flag: False
Action: INDEPENDENT CLEANUP
Further Action: 0
Comments: Not reported

VCS:
Name: CASCADE GYPSUM & BUILDING SUPPLY
Address: 689 SE GLENWOOD DR.
City,State,Zip: BEND, OR 97709
ECS Site ID: 3464
Facility Size: Not reported
Action: INDEPENDENT CLEANUP
Start Date: 09/03/2002
End Date: 02/01/2003
Program: ICP
Latitude: 44.0503
Longitude: -121.2953
Primary Action Flag: False
Investigation Code: NFA

Name: CASCADE GYPSUM & BUILDING SUPPLY
Address: 689 SE GLENWOOD DR.
City,State,Zip: BEND, OR 97709
ECS Site ID: 3464
Facility Size: Not reported
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 02/01/2003
End Date: 02/01/2003
Program: VCS
Latitude: 44.0503
Longitude: -121.2953
Primary Action Flag: True
Investigation Code: NFA

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35 **SCHNITZER STEEL - BEND** **OR ECSI** **S109577858**
NNW **110 SE 5TH ST** **OR AST** **N/A**
1/2-1 **BEND, OR 97702** **OR UIC**
0.926 mi.
4891 ft.

Relative:
Lower

Actual:
3681 ft.

ECSI:
Name: SCHNITZER STEEL - BEND
Address: 110 SE 5TH ST
City,State,Zip: BEND, OR 97702
State ID Number: 1719
Brown ID: 0
Study Area: False
Region ID: 1
Legislatve ID: 832
Investigation: Suspect
FACA ID: 9717
Further Action: 258
Lat/Long (dms): 44 3 1.40 / -121 18 .40
County Code: 9.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 18.00

SCHNITZER STEEL - BEND (Continued) **S109577858**

Township Zone: S
Range Coord: 12.00
Range Zone: E
Section Coord: 4
Qtr Section: BB
Tax Lots: Not reported
Size: 5 acres
NPL: False
Orphan: False
Updated By: KROBERT
Update Date: 02/19/2013
Created Date: 07/21/1995
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: Medium
Decode For Investstat: Suspect
Decode For Legislative: Owner, operator or other party under state or federal authority
Alias Name: Sessler Inc.

Hazardous Release:
Substance ID.: 121985
Haz Release ID: 381781
Qty Released: 150 gallons
Date Released: 12/18/92
Update Date: 09/09/1998
Update By: Not reported
Substance Code: ECD182
Substance Name: HYDRAULIC OIL
Substance Abbrev.: Not reported
Substance Category ID: 8535
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8535
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 340196
Feature Id: Not reported
Hazard Release Id: 381781
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: True
Lab Data: False
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: Not reported
Last Update By: dmc
Update Date: 09/09/1998
Decode for MediumID: Soil

SCHNITZER STEEL - BEND (Continued) **S109577858**

Substance ID.: 122012
Haz Release ID: 380171
Qty Released: unknown
Date Released: unknown
Update Date: 09/28/1995
Update By: Not reported
Substance Code: ECD275
Substance Name: TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.: Not reported
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8540
Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Sampling Result ID: 343736
Feature Id: Not reported
Hazard Release Id: 380171
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 2800 - 5100 ppm
Last Update By: dmc
Update Date: 10/17/1997
Decode for MediumID: Soil

Substance ID.: 121608
Haz Release ID: 380172
Qty Released: unknown
Date Released: unknown
Update Date: 09/28/1995
Update By: Not reported
Substance Code: 71-43-2
Substance Name: BENZENE
Substance Abbrev.: Not reported
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8502
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002

SCHNITZER STEEL - BEND (Continued) **S109577858**

Substance Alias ID: 319178
Sub Alias Name: BENZOL
Substance Alias ID: 319179
Sub Alias Name: COAL NAPTHA
Substance Alias ID: 319180
Sub Alias Name: CYCLOHEXATRIENE
Substance Alias ID: 319181
Sub Alias Name: PHENE
Substance Alias ID: 319182
Sub Alias Name: PYROBENZOL
Sampling Result ID: 343737
Feature Id: Not reported
Hazard Release Id: 380172
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 4.7 ppm (TCLP)
Last Update By: dxd
Update Date: 09/28/1995
Decode for MediumID: Soil

Narrative:

NARR ID: 5735180
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: DCROUSE
Updated Date: 01/22/2007
Decode for NarcdID: Contamination
NARR Comments: (2/2/93 WCW/ER) Approximately 150 gallons of hydraulic oil released when the hydraulic equipment failed. (7/26/95 DD/SAS) Site visit conducted by Bend staff during a 3/21/95 complaint investigation. Site visit confirmed, through observation and sampling, hazardous substance releases at the site.

NARR ID: 5735181
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: DCROUSE
Updated Date: 04/21/2008
Decode for NarcdID: Data Sources
NARR Comments: 1. DEQ Pollution Complaint (12/23/92). 2. DEQ Request for Spill Containment/Cleanup/Spill Report (2/3/93). 3. ER/Bend Office HW Complaint Investigation File. 4. EPA Site Discovery List (5/4/90).

NARR ID: 5735182
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002

SCHNITZER STEEL - BEND (Continued) **S109577858**

Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Primarily releases of petroleum products to the ground resulting in high TCLP concentrations of benzene in soil samples collected by DEQ staff.

NARR ID: 5735183
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Equipment failure on 12/18/92 for hydraulic release; poor business practices.

NARR ID: 5735184
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: Impact to soils observed. No investigation of impacts to groundwater. Security fence present at the site.

NARR ID: 5735185
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: KROBERT
Updated Date: 02/19/2013
Decode for NarcdID: Remedial Action
NARR Comments: (2/3/93 WCW/ER) RP said cleanup activities will occur when the weather/site conditions allow. DEQ recommends using <quot>knowledge of process<quot> criteria to dispose of the waste at Knott Landfill. (7/26/95 DD/SAS) One cubic yard of contaminated soil excavated and sent off-site; recommend additional investigation and remediation at the site. (12/18/00 KJR/SAS) Schnitzer has documented cleanup of contamination that DEQ noted in a 1995 site visit, and has implemented housekeeping improvements to minimize the chances of future releases. While additional site investigation is still needed, DEQ currently has insufficient evidence with which to propose this site for the Confirmed Release List. (2/19/13 KJR/SAS) possible removal action, without DEQ oversight, underway.

NARR ID: 5735186
NARR Code: Health Threats
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Health Threats
NARR Comments: Soil contamination. Threat to shallow groundwater undetermined.

Administrative Action:
Action ID: 9424

SCHNITZER STEEL - BEND (Continued) **S109577858**

Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Eastern Region
Complete Date: 08/02/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Eastern Region
Complete Date: 08/02/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Eastern Region
Complete Date: 08/02/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Eastern Region

SCHNITZER STEEL - BEND (Continued) **S109577858**

Complete Date: 08/03/1995
Rank Value: 0
Cleanup Flag: True
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: State Basic Preliminary Assessment recommended (PA)
Further Action: Medium
Comments: Not reported

Action ID: 9426
Region: Eastern Region
Complete Date: 12/18/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Eastern Region
Complete Date: 12/18/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 133052
Operation Status: Active
Common Name: Schnitzer Steel

SCHNITZER STEEL - BEND (Continued) **S109577858**

Yrs of Operation:	Since 11/93
Comments:	Scrap metal recycling facility
Updated Date:	09/28/1995
Updated By:	dxd
Decode for OpstatID:	Active
Operations SIC Id:	196260
SIC Code:	5093
Created By:	Not reported
Created Date:	12/17/2002

Operation Id:	133053
Operation Status:	Inactive
Common Name:	Sessler Inc.
Yrs of Operation:	Prior to 11/93.
Comments:	Scrap metal recycling facility
Updated Date:	09/09/1998
Updated By:	dmc
Decode for OpstatID:	Inactive
Operations SIC Id:	196635
SIC Code:	5093
Created By:	Not reported
Created Date:	12/17/2002

Operation Id:	133054
Operation Status:	Inactive
Common Name:	Sessler Steel
Yrs of Operation:	Sold to Schnitzer Steel 11/93
Comments:	Scrap metal recycling facility
Updated Date:	09/28/1995
Updated By:	dxd
Decode for OpstatID:	Inactive

AST:

Facility ID:	15529
Name:	SCHNITZER STEEL
Address:	110 N SE 5TH ST
City,State,Zip:	BEND, OR 97702
Substance:	DIESEL FUEL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Michael
Direct Site Phone:	5413828471
Report Class:	Annual
Report Year:	2021
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	Scrap metal recycling
NAICS Code:	423930
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999

SCHNITZER STEEL - BEND (Continued) **S109577858**

Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	Yes
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	Yes
Is Specific Target Organ Toxicity:	Yes

Facility ID:	15529
Name:	SCHNITZER STEEL
Address:	110 N SE 5TH ST
City,State,Zip:	BEND, OR 97702
Substance:	DIESEL FUEL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Michael
Direct Site Phone:	5415010060
Report Class:	Annual
Report Year:	2022
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	ACTIVE
Nature of Business:	Scrap metal recycling
NAICS Code:	423930
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999

SCHNITZER STEEL - BEND (Continued) **S109577858**

Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	Yes
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	Yes
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	Yes
Is Specific Target Organ Toxicity:	Yes

Facility ID:	15529
Name:	SCHNITZER STEEL
Address:	110 N SE 5TH ST
City,State,Zip:	BEND, OR 97702
Substance:	DIESEL FUEL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Michael
Direct Site Phone:	5413828471
Report Class:	Annual
Report Year:	2018
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	Scrap metal recycling
NAICS Code:	423930
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999

SCHNITZER STEEL - BEND (Continued) **S109577858**

Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	Yes
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	Yes
Is Specific Target Organ Toxicity:	No

Facility ID:	15529
Name:	SCHNITZER STEEL
Address:	110 N SE 5TH ST
City,State,Zip:	BEND, OR 97702
Substance:	DIESEL FUEL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Michael
Direct Site Phone:	5413828471
Report Class:	Annual
Report Year:	2019
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	Scrap metal recycling
NAICS Code:	423930
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999

SCHNITZER STEEL - BEND (Continued) **S109577858**

Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	Yes
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	Yes
Is Specific Target Organ Toxicity:	No

Facility ID:	15529
Name:	SCHNITZER STEEL
Address:	110 N SE 5TH ST
City,State,Zip:	BEND, OR 97702
Substance:	DIESEL FUEL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Michael
Direct Site Phone:	5413828471
Report Class:	Annual
Report Year:	2020
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	Scrap metal recycling
NAICS Code:	423930
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999

SCHNITZER STEEL - BEND (Continued) **S109577858**

Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	Yes
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	Yes
Is Specific Target Organ Toxicity:	No

Facility ID:	15529
Name:	SCHNITZER STEEL
Address:	110 N SE 5TH ST
City,State,Zip:	BEND, OR 97702
Substance:	DIESEL FUEL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	Michael
Direct Site Phone:	5413828471
Report Class:	Annual(Revision)
Report Year:	2017
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	Scrap metal recycling
NAICS Code:	423930
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999

SCHNITZER STEEL - BEND (Continued) **S109577858**

Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	No
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	Yes
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	Yes
Is Specific Target Organ Toxicity:	No

Facility ID:	15529
Name:	SCHNITZER STEEL
Address:	110 SE 5TH ST
City,State,Zip:	BEND, OR 97702
Substance:	DIESEL FUEL
Reporting Quantities:	Not reported
Quantity Units:	Not reported
Physical State:	Not reported
Storage 1:	Above ground tank
Storage 2:	Not reported
Owner-Operator Name:	DAVID
Direct Site Phone:	5413828471
Report Class:	Annual
Report Year:	2017
Is Poisonous Gas:	No
Is Poisonous Material:	No
Is Biological Hazard:	No
Is Radioactive Material:	No
Is Explosive:	No
Status:	Not reported
Nature of Business:	SCRAP PROCESSING
NAICS Code:	423930
Maximum Daily Amount Code:	11
Maximum Daily Amount Code Range:	500-999

SCHNITZER STEEL - BEND (Continued) **S109577858**

Maximum Daily Amount Units:	gal
Is Solid State:	No
Is Liquid State:	Yes
Is Gaseous State:	No
Is Combustible Dust:	No
Is Fire Hazard:	No
Is Sudden Release of Pressure Hazard:	No
Is Reactive Hazard:	No
Is Immediate Hazard:	No
Is Delayed Hazard:	No
Is Corrosive to Metal:	No
Is Flammable:	Yes
Is Gas Under Pressure:	No
Is Physical HNOC:	No
Is Emission of Gas With Water:	No
Is Organic Peroxide:	No
Is Oxidizer:	No
Is Pyrophoric liquid or solid:	No
Is Pyrophoric Gas:	No
Is Self-Heating:	No
Is Self-Reacting:	No
Is Acute Toxicity:	Yes
Is Aspiration Hazard:	Yes
Is Carcinogenicity:	Yes
Is Germ Cell Mutagenicity:	No
Is Health HNOC:	No
Is Reproductive Toxicity:	No
Is Respiratory or Skin Sensitization:	No
Is Serious Eye Damage or Eye Irritation:	No
Is Simple Asphyxiate:	No
Is Skin Corrosion or Irritation:	Yes
Is Specific Target Organ Toxicity:	No

OR UIC:

Name:	SCHNITZER STEEL - BEND
Address:	110 SE 5TH
City,State,Zip:	BEND, OR
UIC Well #:	1
Type:	5D4
Type Description:	Industrial Storm Water Drainage
UIC Number:	13555
Facility Status:	Not Registered
Lat/Long:	44.0496 / -121.2983

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36 **BEND PARKWAY - HILL ST UST** **OR ECSI 1006867274**
WNW **HILL ST** **OR VCP N/A**
1/2-1 **BEND, OR 97702** **FINDS**
0.932 mi.
4923 ft.

Relative:
Lower

Actual:
3687 ft.

ECSI:

Name:	BEND PARKWAY - HILL ST. UST
Address:	HILL ST
City,State,Zip:	BEND, OR 97701
State ID Number:	1851
Brown ID:	0
Study Area:	False

BEND PARKWAY - HILL ST UST (Continued) **1006867274**

Region ID:	1
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	40395
Further Action:	0
Lat/Long (dms):	44 3 57.50 / -121 18 30.00
County Code:	9.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	17.00
Township Zone:	S
Range Coord:	12.00
Range Zone:	E
Section Coord:	32
Qtr Section:	AA
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	DCROUSE
Update Date:	07/15/2011
Created Date:	04/10/1996
Decode For RegionID:	Eastern Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Hazardous Release:

Substance ID.:	122012
Haz Release ID:	380430
Qty Released:	unknown
Date Released:	unknown
Update Date:	04/18/1996
Update By:	Not reported
Substance Code:	ECD275
Substance Name:	TOTAL PETROLEUM HYDROCARBONS (TPH)
Substance Abbrev.:	Not reported
Substance Category ID:	8540
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8540
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Sampling Result ID:	342116
Feature Id:	Not reported
Hazard Release Id:	380430
Medium:	703
Substance Abbrev.:	Not reported
Unit Code:	Not reported
Observation:	False
Owner Operator:	True
Lab Data:	True
Sample Depth:	Not reported

BEND PARKWAY - HILL ST UST (Continued) **1006867274**

Start Date: 07/12/1995
End Date: 07/12/1995
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: ND
Last Update By: dmc
Update Date: 04/18/1996
Decode for MediumID: Soil
Sampling Result ID: 342117
Feature Id: Not reported
Hazard Release Id: 380430
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: True
Lab Data: True
Sample Depth: Not reported
Start Date: 07/17/1995
End Date: 07/17/1995
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: ND
Last Update By: dmc
Update Date: 04/18/1996
Decode for MediumID: Soil

Narrative:
NARR ID: 5735816
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Contamination
NARR Comments: (1/25/96 TPS/VCS) On 7/28/95, a UST was discovered and removed during construction activities on the south end of the Hill ST construction project.

NARR ID: 5735817
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Site Location
NARR Comments: Hill ST north of the Bend Bulletin.

NARR ID: 5735818
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Remedial Action
NARR Comments: (1/25/96 TPS/VCS) Contaminated soil was excavated from this site and was temporarily stockpiled near the subject site. Confirmation samples indicated that all of the impacted soils above the cleanup

BEND PARKWAY - HILL ST UST (Continued) **1006867274**

level have been removed. DEQ has requested additional information on the approximate volume removed and copies of the disposal receipts to document the disposition of the soil. (2/5/97 TPS/VCS) Information received and site closed on 1/3/97.

Administrative Action:

Action ID: 9424
Region: Eastern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Eastern Region
Complete Date: 01/03/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Eastern Region
Complete Date: 01/03/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Not reported

Action ID: 9470
Region: Eastern Region
Complete Date: 01/25/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False

BEND PARKWAY - HILL ST UST (Continued) **1006867274**

Action: Other remedial or investigative action recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Eastern Region
Complete Date: 01/25/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Eastern Region
Complete Date: 01/03/1997
Rank Value: 0
Cleanup Flag: True
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 11/16/1996
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: Not reported
Comments: Not reported

Action ID: 9440
Region: Eastern Region
Complete Date: 11/22/1995
Rank Value: 0
Cleanup Flag: True
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement

BEND PARKWAY - HILL ST UST (Continued) **1006867274**

Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 133150
Operation Status: Active
Common Name: Hill ST UST
Yrs of Operation: Unknown.
Comments: Road construction.
Updated Date: 01/28/1999
Updated By: dmc
Decode for OpstatID: Active
Operations SIC Id: 196701
SIC Code: 1611
Created By: Not reported
Created Date: 12/17/2002

VCS:
Name: BEND PARKWAY - HILL ST. UST
Address: HILL ST
City,State,Zip: BEND, OR 97701
ECS Site ID: 1851
Facility Size: Not reported
Action: Site added to database
Start Date: 04/10/1996
End Date: Not reported
Program: VCS
Latitude: 44.0659
Longitude: -121.3083
Primary Action Flag: False
Investigation Code: NFA

Name: BEND PARKWAY - HILL ST. UST
Address: HILL ST
City,State,Zip: BEND, OR 97701
ECS Site ID: 1851
Facility Size: Not reported
Action: SITE EVALUATION
Start Date: 01/25/1996
End Date: 01/03/1997
Program: VCS
Latitude: 44.0659
Longitude: -121.3083
Primary Action Flag: False
Investigation Code: NFA

Name: BEND PARKWAY - HILL ST. UST
Address: HILL ST
City,State,Zip: BEND, OR 97701
ECS Site ID: 1851
Facility Size: Not reported
Action: Listing Review completed
Start Date: 01/25/1996
End Date: 01/25/1996
Program: VCS
Latitude: 44.0659
Longitude: -121.3083

BEND PARKWAY - HILL ST UST (Continued) **1006867274**

Primary Action Flag: False
Investigation Code: NFA

Name: BEND PARKWAY - HILL ST. UST
Address: HILL ST
City,State,Zip: BEND, OR 97701
ECS Site ID: 1851
Facility Size: Not reported
Action: Letter Agreement
Start Date: 11/16/1996
End Date: 11/16/1996
Program: VCS
Latitude: 44.0659
Longitude: -121.3083
Primary Action Flag: False
Investigation Code: NFA

Name: BEND PARKWAY - HILL ST. UST
Address: HILL ST
City,State,Zip: BEND, OR 97701
ECS Site ID: 1851
Facility Size: Not reported
Action: Letter Agreement
Start Date: 11/22/1995
End Date: 11/22/1995
Program: VCS
Latitude: 44.0659
Longitude: -121.3083
Primary Action Flag: False
Investigation Code: NFA

Name: BEND PARKWAY - HILL ST. UST
Address: HILL ST
City,State,Zip: BEND, OR 97701
ECS Site ID: 1851
Facility Size: Not reported
Action: Insufficient information to list
Start Date: 01/25/1996
End Date: 01/03/1997
Program: VCS
Latitude: 44.0659
Longitude: -121.3083
Primary Action Flag: False
Investigation Code: NFA

Name: BEND PARKWAY - HILL ST. UST
Address: HILL ST
City,State,Zip: BEND, OR 97701
ECS Site ID: 1851
Facility Size: Not reported
Action: Other remedial or investigative action recommended
Start Date: 01/25/1996
End Date: 01/25/1996
Program: VCS
Latitude: 44.0659
Longitude: -121.3083
Primary Action Flag: False

BEND PARKWAY - HILL ST UST (Continued) **1006867274**

Investigation Code: NFA

Name: BEND PARKWAY - HILL ST. UST
Address: HILL ST
City,State,Zip: BEND, OR 97701
ECS Site ID: 1851
Facility Size: Not reported
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 01/03/1997
End Date: 01/03/1997
Program: VCS
Latitude: 44.0659
Longitude: -121.3083
Primary Action Flag: True
Investigation Code: NFA

FINDS:
Registry ID: 110014302003

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Oregon Department of Environmental Quality (DEQ) is a regulatory agency tasked with protecting the quality of Oregon's environment. DEQ uses a combination of technical assistance, inspections, and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

37
WSW
1/2-1
0.973 mi.
5137 ft.

NOSLER BULLETS INC. - PARRELL RD.
61396 PARRELL RD.
BEND, OR 97701

OR ECSI **S104047249**
OR MANIFEST **N/A**
OR UIC

Relative:
Higher

Actual:
3784 ft.

ECSI:
Name: NOSLER BULLETS INC. - PARRELL RD.
Address: 61396 PARRELL RD.
City,State,Zip: BEND, OR 97701
State ID Number: 86
Brown ID: 0
Study Area: False
Region ID: 1
Legislatve ID: 0
Investigation: Suspect
FACA ID: 9256
Further Action: 256
Lat/Long (dms): 44 1 46.20 / -121 18 27.40
County Code: 9.00
Score Value: Not reported
Cerclis ID: 009028176
Township Coord.: 18.00
Township Zone: S
Range Coord: 12.00
Range Zone: E
Section Coord: 8

NOSLER BULLETS INC. - PARRELL RD. (Continued) **S104047249**

Qtr Section: D
Tax Lots: 1402
Size: 1.1 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 12/22/2011
Created Date: 04/12/1988
Decode For RegionID: Eastern Region
Decode For BrownID: Not reported
Decode For Furtheract: High
Decode For Investstat: Suspect
Decode For Legislative: Not reported
Alias Name: Nosler - Parrell Rd. Shooting Range Ammo

Hazardous Release:
Substance ID.: 121734
Haz Release ID: 382689
Qty Released: unknown
Date Released: 1948 -1975
Update Date: 04/03/1996
Update By: Not reported
Substance Code: 7664-93-9
Substance Name: SULFURIC ACID
Substance Abbrev.: Not reported
Substance Alias ID: 319457
Sub Alias Name: OIL OF VITRIOL
Substance Alias ID: 319458
Sub Alias Name: SULPHURIC ACID
Comment ID: 304572
Release Code: Media Contamination Footnote
Release Comments: groundwater possibly contaminated
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 345230
Feature Id: Not reported
Hazard Release Id: 382689
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: (unknown)
Last Update By: dmc
Update Date: 10/17/1997
Decode for MediumID: Soil

Substance ID.: 120832
Haz Release ID: 382690
Qty Released: unknown
Date Released: 1948 -1975
Update Date: 04/03/1996
Update By: Not reported

NOSLER BULLETS INC. - PARRELL RD. (Continued) **S104047249**

Substance Code: 10588-01-9
Substance Name: SODIUM BICHROMATE
Substance Abbrev.: Not reported
Comment ID: 304570
Release Code: Media Contamination Footnote
Release Comments: groundwater possibly contaminated
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 346958
Feature Id: Not reported
Hazard Release Id: 382690
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: (unknown)
Last Update By: dmc
Update Date: 10/17/1997
Decode for MediumID: Soil

Substance ID.: 121976
Haz Release ID: 382691
Qty Released: unknown
Date Released: 1948-1975
Update Date: 12/04/1988
Update By: Not reported
Substance Code: ECD147
Substance Name: COPPER OXIDE
Substance Abbrev.: Not reported
Comment ID: 304575
Release Code: Media Contamination Footnote
Release Comments: groundwater possibly contaminated
Decode for Relcomcd: Media Contamination Footnote
Sampling Result ID: 346957
Feature Id: Not reported
Hazard Release Id: 382691
Medium: 703
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: True
Owner Operator: False
Lab Data: False
Sample Depth: Not reported
Start Date: Not reported
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: (unknown)
Last Update By: dmc
Update Date: 10/17/1997
Decode for MediumID: Soil

NOSLER BULLETS INC. - PARRELL RD. (Continued) **S104047249**

Narrative:
NARR ID: 5730122
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 09/23/2004
Decode for NarcdID: Contamination
NARR Comments: (4/12/88 MER/SAS) From approximately 1948 - 1983, sulfuric acid and sodium dichromate solutions were disposed of in shallow hand dug pits in a 0.25-acre area of the site. Sodium dichromate is no longer used and the sulfuric acid w/copper oxide solutions are now disposed of after the acid is neutralized. The solution is disposed of in 15 gallon quantities - approximately 200 gallons/yr on-site in a shallow hole. No estimate of the total quantity of waste dumped from 1948-1975 is available in the file.

NARR ID: 5730415
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: DCROUSE
Updated Date: 01/25/2007
Decode for NarcdID: Data Sources
NARR Comments: 1. Uncontrolled (abandoned) Haz Waste Disposal Site Survey - Progress Report 4 (4/6/84). 2. CERCLIS file. 3. Inspection reports. 4. EPA Preliminary Assessment. 5. Site Investigation.

NARR ID: 5730466
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Sulfuric acid and sodium dichromate solutions containing copper oxide. Not reported

NARR ID: 5730467
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 09/23/2004
Decode for NarcdID: Manner of Release
NARR Comments: Wastes poured into shallow hand dug pits; time of release 1948 - 1983. Not reported

NARR ID: 5730468
NARR Code: Pathways Other Hazards
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Pathways & Other Hazards
NARR Comments: The dumping area on the site covers approximately 0.25 acre. Rural land is adjacent to the site and there is a residential area to the

NOSLER BULLETS INC. - PARRELL RD. (Continued) **S104047249**

south. An irrigation ditch runs through the property, approximately 100-200 ft from the disposal site. Soil and groundwater contamination are possible.

NARR ID: 5730469
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: KROBERT
Updated Date: 12/20/2011
Decode for NarcdID: Remedial Action
NARR Comments: (4/12/88 MER/SAS) Further information or investigation needed. (2/25/08 KJR/SAS) Site screening underway. (11/7/11 DMC/SAS) Site screening completed. High priority for XPA.

NARR ID: 5730470
NARR Code: Containment Units
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Containment Units
NARR Comments: Shallow, hand-dug disposal pits on approximately 0.25-acre lot.

Administrative Action:
Action ID: 9421
Region: Not reported
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: Site added to CERCLIS
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Eastern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False

NOSLER BULLETS INC. - PARRELL RD. (Continued) **S104047249**

Created Date: 11/07/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: 0
Comments: Not reported

Action ID: 9510
Region: Eastern Region
Complete Date: 09/30/2011
Rank Value: 92
Cleanup Flag: False
Created Date: 11/07/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: State Expanded Preliminary Assessment recommended (XPA)
Further Action: High
Comments: Not reported

Action ID: 9521
Region: Eastern Region
Complete Date: 12/20/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/20/2011
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: OPTN
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Eastern Region
Complete Date: 09/30/2011
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/30/2008
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: 0
Comments: Not reported

Action ID: 9445
Region: Headquarters
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

NOSLER BULLETS INC. - PARRELL RD. (Continued) **S104047249**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters
Category: Listing Action
Action Code Flag: False
Action: Responsible party notified re 11/88 Inventory listing
Further Action: Not reported
Comments: Not reported

Action ID: 9508
Region: Eastern Region
Complete Date: 02/08/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Eastern Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: 0
Comments: Not reported

Action ID: 9457
Region: Not reported
Complete Date: 08/01/1984
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Basic Preliminary Assessment
Further Action: Not reported
Comments: Not reported

Action ID: 9512
Region: Not reported
Complete Date: 02/21/1986
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: EPA Screening Site Inspection 1
Further Action: Not reported
Comments: Not reported

Action ID: 9444
Region: Not reported
Complete Date: 02/21/1986
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency

NOSLER BULLETS INC. - PARRELL RD. (Continued) **S104047249**

Decode for RegionID: Not reported
Category: EPA Led Action
Action Code Flag: False
Action: No Further Remedial Action Planned under Federal program
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 131488
Operation Status: Inactive
Common Name: Nosler Bullets Inc.
Yrs of Operation: 1948 to 1983
Comments: copper clad ammunition production
Updated Date: 09/23/2004
Updated By: GWISTAR
Decode for OpstatID: Inactive
Operations SIC Id: 195507
SIC Code: 3482
Created By: Not reported
Created Date: 12/17/2002

OR MANIFEST:
Manifest Year: Manifest Year - 2012
EPA Id: ORD009028176
Inactive Status: Not reported
Organization Name: Not reported
Contact Name: Robert Boyk
Contact Telephone Number: Not reported
Mailing Address: PO Box 671
Mailing City/State/Zip: Bend, OR 97709

Manifest:
Name: NOSLER INC
Year : 2012
RCRA Id : ORD009028176
Inactive : Not reported
Status: Large quantity generator
Manifest : 003957947
Ship Date : 06/22/2012
TSD : ORD089452353
WS Num: 1
Transporter: WAH000028338
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D008
Waste Description: Lead Contaminated Soil
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

OR UIC:
Name: NOSLER BULLETS INC. - PARRELL RD
Address: 61396 PARRELL RD
City,State,Zip: BEND, OR
UIC Well #: 1

NOSLER BULLETS INC. - PARRELL RD. (Continued) **S104047249**

Type: 5D2
Type Description: Storm Water Drainage
UIC Number: 13378
Facility Status: Abandoned
Lat/Long: 44.0295 / -121.3077

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BEND	U000439184	BN RR - BEND 53 & 52	MP 151 LS 54 4TH SUB	97702	OR LUST, OR UST
BEND	S126503873	ROW EMPIRE AVE, BUTLER MARKET RD,	INTERSECTION OF EMPIRE AVENUE,		OR UIC
BEND	S121972023	DAW FOREST PRODUCTS L.P.	WILSON AVE (FOOT OF)	97701	OR LUST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/26/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/31/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/24/2024
Date Data Arrived at EDR: 08/08/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/24/2024
Date Data Arrived at EDR: 08/08/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/13/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

CRL: Confirmed Release List and Inventory

All facilities with a confirmed release.

Date of Government Version: 04/16/2024
Date Data Arrived at EDR: 05/09/2024
Date Made Active in Reports: 08/05/2024
Number of Days to Update: 88

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 08/05/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Quarterly

ECSI: Environmental Cleanup Site Information System

Sites that are or may be contaminated and may require cleanup.

Date of Government Version: 04/16/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 37

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/17/2024
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 503-229-6299
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 05/08/2024
Date Made Active in Reports: 08/05/2024
Number of Days to Update: 89

Source: Department of Environmental Quality
Telephone: 503-229-5790
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/04/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/25/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/15/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 05/08/2024
Date Made Active in Reports: 08/05/2024
Number of Days to Update: 89

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks
Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 03/07/2024
Date Made Active in Reports: 05/30/2024
Number of Days to Update: 84

Source: Office of State Fire Marshal
Telephone: 503-378-3473
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/17/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 01/17/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 56

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Recorded at ESCI Sites

Engineering controls are physical measures selected or approved by the Director for the purpose of preventing or minimizing exposure to hazardous substances. Engineering controls may include, but are not limited to, fencing, capping, horizontal or vertical barriers, hydraulic controls, and alternative water supplies.

Date of Government Version: 04/16/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 37

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

INST CONTROL: Institutional Controls Recorded at ESCI Sites

An institutional control is a legal or administrative tool or action taken to reduce the potential for exposure to hazardous substances. Institutional controls may include, but are not limited to, use restrictions, environmental monitoring requirements, and site access and security measures.

Date of Government Version: 04/16/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 37

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

VCS: Voluntary Cleanup Program Sites

Responsible parties have entered into an agreement with DEQ to voluntarily address contamination associated with their property.

Date of Government Version: 10/04/2023
Date Data Arrived at EDR: 10/06/2023
Date Made Active in Reports: 10/13/2023
Number of Days to Update: 7

Source: DEQ
Telephone: 503-229-5256
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/14/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Projects

Brownfields investigations and/or cleanups that have been conducted in Oregon.

Date of Government Version: 06/21/2024
Date Data Arrived at EDR: 06/26/2024
Date Made Active in Reports: 08/06/2024
Number of Days to Update: 41

Source: Department of Environmental Quality
Telephone: 503-229-6801
Last EDR Contact: 08/05/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/11/2024
Date Data Arrived at EDR: 03/12/2024
Date Made Active in Reports: 05/10/2024
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/11/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: Old Closed SW Disposal Sites

A list of solid waste disposal sites that have been closed for a long while.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 07/08/2003
Date Made Active in Reports: 07/18/2003
Number of Days to Update: 10

Source: Department of Environmental Quality
Telephone: 503-229-5409
Last EDR Contact: 07/08/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facility Location Listing

A listing of recycling facility locations.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 05/22/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: 503-229-5353
Last EDR Contact: 08/19/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Quarterly

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/22/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

AOC MU: East Multnomah County Area
Approximate extent of TSA VOC plume February , 2002

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 10/07/2002
Date Made Active in Reports: 10/22/2002
Number of Days to Update: 15
Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 05/21/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 79
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: No Update Planned

AOC COL: Columbia Slough
Columbia Slough waterway boundaries.

Date of Government Version: 08/10/2005
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/16/2006
Number of Days to Update: 30
Source: City of Portland Environmental Services
Telephone: 503-823-5310
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CDL: Uninhabitable Drug Lab Properties
The properties listed on these county pages have been declared by a law enforcement agency to be unfit for use due to meth lab and/or storage activities. The properties are considered uninhabitable until cleaned up by a state certified decontamination contractor and a certificate of fitness is issued by the Oregon Health Division.

Date of Government Version: 04/30/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 07/26/2024
Number of Days to Update: 86
Source: Department of Consumer & Business Services
Telephone: 503-378-4133
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

CDL 2: Clandestine Drug Lab Site Listing
A listing of clandestine drug lab site locations included in the Incident database.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/24/2024
Date Made Active in Reports: 07/22/2024
Number of Days to Update: 89
Source: Oregon State Police
Telephone: 503-373-1540
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 05/21/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 79
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/14/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 7
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

SPILLS: Spill Data
Oil and hazardous material spills reported to the Environmental Response Program.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/26/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 86
Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Semi-Annually

HAZMAT: Hazmat/Incidents
Hazardous material incidents reported to the State Fire Marshal by emergency responders. The hazardous material may or may not have been released.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/24/2024
Date Made Active in Reports: 07/22/2024
Number of Days to Update: 89

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 05/01/2006
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/12/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/05/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/15/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/11/2024
Date Data Arrived at EDR: 07/11/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 1

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 23

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 03/13/2024
Number of Days to Update: 57

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/28/2024
Next Scheduled EDR Contact: 09/09/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 06/03/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/06/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 1

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/14/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 99

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 05/22/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 85

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/18/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 79

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/13/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/09/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 87

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/23/2024
Date Data Arrived at EDR: 06/28/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/28/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/04/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 04/14/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/07/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Varies

PFAS: PFAS Site Contamination Listing

Site locations where pfas contamination has been detected.

Date of Government Version: 05/08/2024
Date Data Arrived at EDR: 07/08/2024
Date Made Active in Reports: 08/06/2024
Number of Days to Update: 29

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

AQUEOUS FOAM: AFFF Contamination Site Listing

Site locations with aqueous film-forming foam use and environmental impact.

Date of Government Version: 04/09/2024
Date Data Arrived at EDR: 04/12/2024
Date Made Active in Reports: 07/10/2024
Number of Days to Update: 89

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

AIRS: Oregon Title V Facility Listing

A listing of Title V facility source and emissions information.

Date of Government Version: 03/25/2024
Date Data Arrived at EDR: 03/28/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 503-229-6459
Last EDR Contact: 06/21/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Sites Listing

A listing of coal ash disposal sites.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 03/20/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 541-298-7255
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities
A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 04/23/2024
Date Made Active in Reports: 07/16/2024
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Annually

ENF: Enforcement Action Listing
Enforcement actions

Date of Government Version: 03/11/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/07/2024
Number of Days to Update: 86

Source: Department of Environmental Quality
Telephone: 503-229-5696
Last EDR Contact: 06/12/2024
Next Scheduled EDR Contact: 09/23/2024
Data Release Frequency: Quarterly

FIN ASSURANCE 1: Financial Assurance Information Listing
Financial assurance information for hazardous waste facilities.

Date of Government Version: 02/06/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/22/2024
Number of Days to Update: 84

Source: Department of Environmental Quality
Telephone: 541-633-2011
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Semi-Annually

FIN ASSURANCE 2: Financial Assurance Information Listing
Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/05/2024
Date Data Arrived at EDR: 06/06/2024
Date Made Active in Reports: 07/02/2024
Number of Days to Update: 26

Source: Department of Environmental Quality
Telephone: 503-229-5521
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Semi-Annually

HSIS: Hazardous Substance Information Survey
Companies in Oregon submitting the Hazardous Substance Information Survey and either reporting or not reporting hazardous substances.

Date of Government Version: 04/25/2024
Date Data Arrived at EDR: 04/25/2024
Date Made Active in Reports: 07/22/2024
Number of Days to Update: 88

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

OR MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 07/28/2021
Date Made Active in Reports: 10/21/2021
Number of Days to Update: 85

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 07/25/2024
Date Data Arrived at EDR: 07/30/2024
Date Made Active in Reports: 08/02/2024
Number of Days to Update: 3

Source: Department of Environmental Quality
Telephone: 503-229-5657
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

UIC: Underground Injection Control Program Database

DEQ's Underground Injection Control Program is authorized by the Environmental Protection Agency (EPA) to regulate all underground injection in Oregon to protect groundwater resources.

Date of Government Version: 06/20/2024
Date Data Arrived at EDR: 06/21/2024
Date Made Active in Reports: 07/08/2024
Number of Days to Update: 17

Source: Department of Environmental Quality
Telephone: 503-229-5945
Last EDR Contact: 06/17/2024
Next Scheduled EDR Contact: 09/30/2024
Data Release Frequency: Quarterly

LUST HOT: Heating Oil Tank Clean-up Sites Listing

Identify sites where a leak has been reported or cleaned up.

Date of Government Version: 04/30/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/07/2024
Number of Days to Update: 6

Source: Department of Environmental Quality
Telephone: 503-229-5696
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Quarterly

TANK HOT DECOM: Heating Oil Tank Clean Decommissioning Sites Listing

This list includes properties with former heating oil tanks that have a registered certificate of voluntary decommissioning filed with DEQ. Tanks on this list were closed following DEQ rules and a leak was not detected.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/08/2024
Date Made Active in Reports: 08/05/2024
Number of Days to Update: 89

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Oregon.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Oregon.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Oregon.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/27/2013
Number of Days to Update: 179

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2024
Next Scheduled EDR Contact: 09/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Child Care Listings
Source: Employment Department
Telephone: 503-947-1420

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data
Source: Oregon Geospatial Enterprise Office
Telephone: 503-378-2166

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

REED MARKET
905 MARKET RD
BEND, OR 97702

TARGET PROPERTY COORDINATES

Latitude (North):	44.036991 - 44° 2' 13.17''
Longitude (West):	121.288741 - 121° 17' 19.47''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	637118.1
UTM Y (Meters):	4877188.5
Elevation:	3726 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14877958 BEND, OR
Version Date:	2020

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

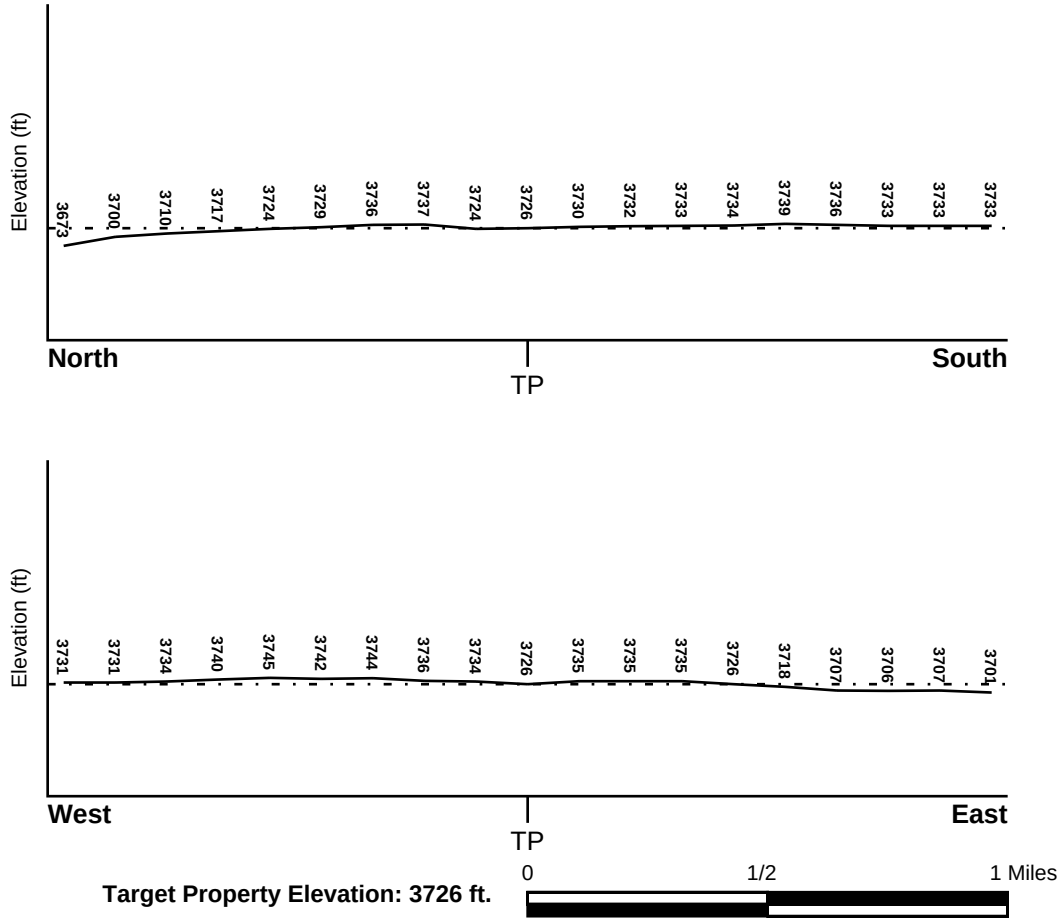
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
41017C0215C	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BEND	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

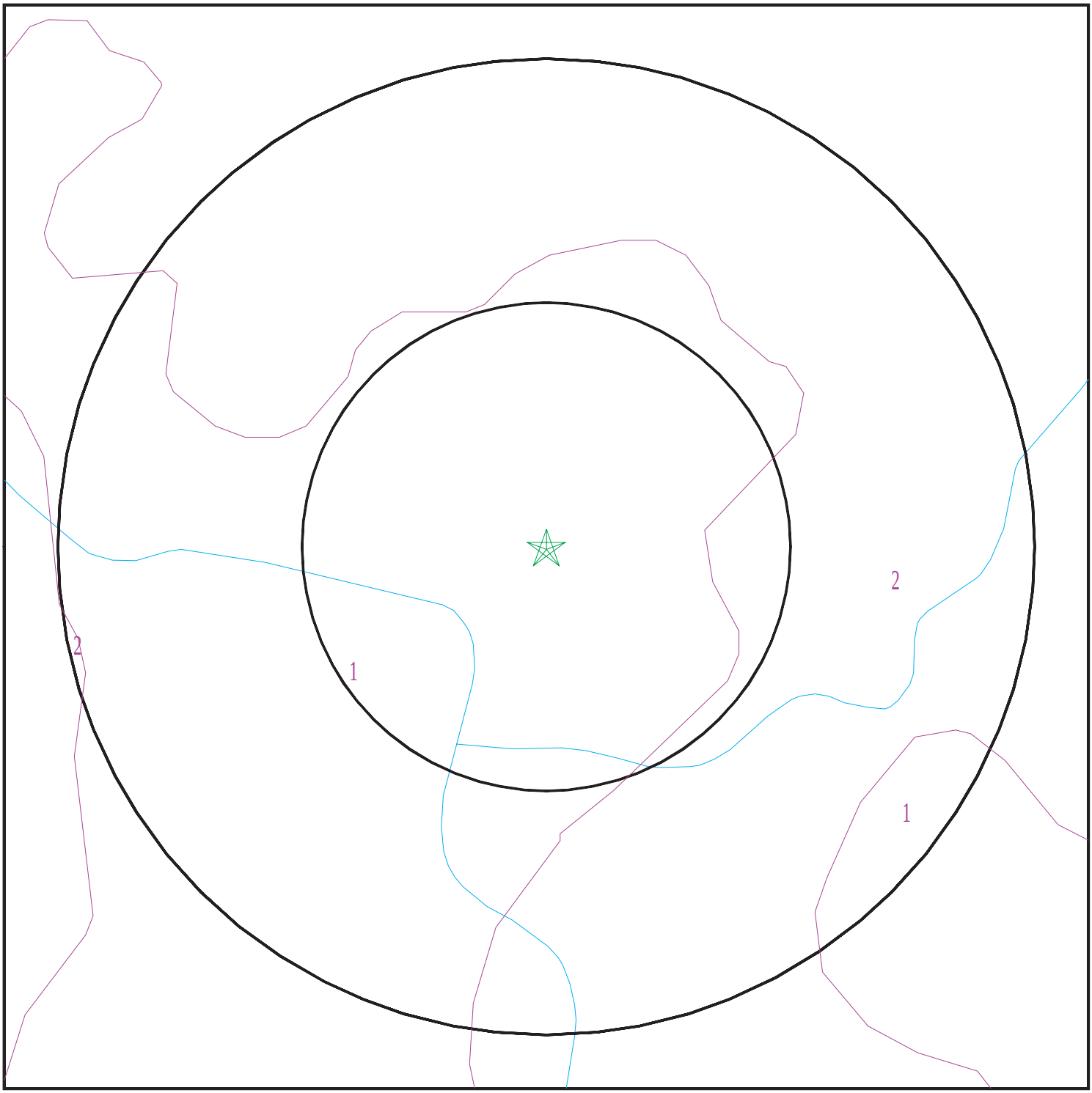
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary volcanic rocks
Code:	Qv *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Volcanic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7746393.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Reed Market	CLIENT:	Coles & Betts Environmental Consulting LLC
ADDRESS:	905 Market Rd Bend OR 97702	CONTACT:	Ms. Jill Betts
LAT/LONG:	44.036991 / 121.288741	INQUIRY #:	7746393.2s
		DATE:	August 28, 2024 8:49 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Wanoga

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 86 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
2	11 inches	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
3	24 inches	33 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	33 inches	44 inches	unweathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: Wanoga

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
2	11 inches	24 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	24 inches	33 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
4	33 inches	44 inches	unweathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000988782	1/4 - 1/2 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

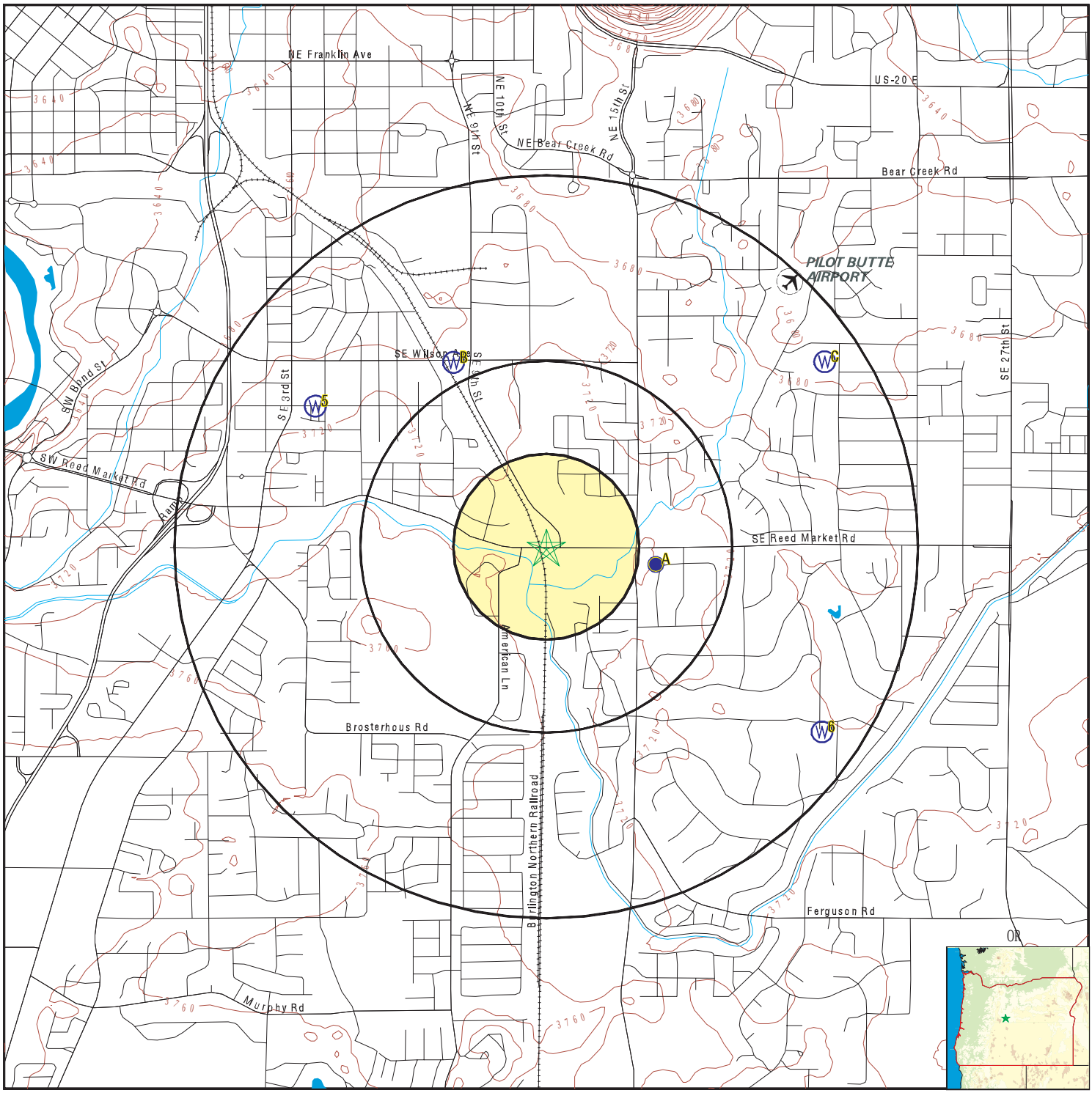
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	ORWDS8000052338	1/4 - 1/2 Mile East
B3	ORWDS8000052314	1/2 - 1 Mile NNW
B4	ORWDS8000056522	1/2 - 1 Mile NNW
5	ORWDS8000056523	1/2 - 1 Mile WNW
6	ORWDS8000052339	1/2 - 1 Mile SE
C7	ORWDS8000052309	1/2 - 1 Mile ENE
C8	ORWDS8000048142	1/2 - 1 Mile ENE
C9	ORWDS8000052307	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 7746393.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME:	Reed Market	CLIENT:	Coles & Betts Environmental Consulting LLC
ADDRESS:	905 Market Rd Bend OR 97702	CONTACT:	Ms. Jill Betts
		INQUIRY #:	7746393.2s
LAT/LONG:	44.036991 / 121.288741	DATE:	August 28, 2024 8:49 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
East
1/4 - 1/2 Mile
Higher | **OR WELLS** | **ORWDS8000052338**

WELLS:

Well Log ID:	60076	Log Type:	Water Well
Image ID:	59151	County:	DESC
Well Log #:	5598	Well Tag #:	Not Reported
Start Card #:	Not Reported	Primary Use:	Domestic
Owner:	Not Reported	Bonded Name:	RON SCANLON
Bonded Company:	C & R DRILLING CO.	Bonded License #:	540
Owner #:	Not Reported	Company Job #:	Not Reported
New Work:	Y	Deepening Work:	N
Conversion Work:	N	Alteration Work:	N
Abandonment Work:	N	Other Work:	Not Reported
First Water Depth (ft):	597	Completed Depth (ft):	660
Casing Max Diameter (in):	Not Reported	Start Date:	11-APR-74
Completion Date:	12-JUL-74	Received Date:	21-OCT-74
Tax Lot:	Not Reported	Hardness Amount:	Not Reported
Hardness Units:	Not Reported	Yield (gpm):	25
Post Static WL (ft):	597	Temperature:	52
Temperature Units:	Not Reported		
Log URL:	https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=DESC&wl_nbr=5598		

A2
East
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000988782**

Organization ID:	USGS-OR	Organization Name:	USGS Oregon Water Science Center
Monitor Location:	18S/12E-10BBB1	Type:	Well
Description:	Not Reported	HUC:	17070301
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19740712
Well Depth:	660	Well Depth Units:	ft
Well Hole Depth:	660	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1974-07-12
Feet below surface:	597.00	Feet to sea level:	Not Reported
Note:	Not Reported		

B3
NNW
1/2 - 1 Mile
Lower | **OR WELLS** | **ORWDS8000052314**

WELLS:

Well Log ID:	60052	Log Type:	Water Well
Image ID:	59127	County:	DESC
Well Log #:	5573	Well Tag #:	Not Reported
Start Card #:	Not Reported	Primary Use:	Domestic
Owner:	JOHN R SHEPHARD	Bonded Name:	WILLIAM CUNNINGHAM

Bonded Company:	Not Reported	Bonded License #:	474
Owner #:	Not Reported	Company Job #:	Not Reported
New Work:	Y	Deepening Work:	N
Conversion Work:	N	Alteration Work:	N
Abandonment Work:	N	Other Work:	Not Reported
First Water Depth (ft):	Not Reported	Completed Depth (ft):	465
Casing Max Diameter (in):	6	Start Date:	08-MAR-68
Completion Date:	07-JUN-68	Received Date:	05-JUL-68
Tax Lot:	Not Reported	Hardness Amount:	Not Reported
Hardness Units:	Not Reported	Yield (gpm):	0
Post Static WL (ft):	0	Temperature:	Not Reported
Temperature Units:	Not Reported		
Log URL:	https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=DESC&wl_nbr=5573		

B4
NNW **OR WELLS** **ORWDS8000056522**
1/2 - 1 Mile
Lower

WELLS:

Well Log ID:	64456	Log Type:	Water Well
Image ID:	63335	County:	DESC
Well Log #:	10167	Well Tag #:	Not Reported
Start Card #:	Not Reported	Primary Use:	OTHER
Owner:	Not Reported	Bonded Name:	JIM J HANSEN
Bonded Company:	Not Reported	Bonded License #:	841
Owner #:	Not Reported	Company Job #:	Not Reported
New Work:	Y	Deepening Work:	N
Conversion Work:	N	Alteration Work:	N
Abandonment Work:	N	Other Work:	Not Reported
First Water Depth (ft):	0	Completed Depth (ft):	0
Casing Max Diameter (in):	10	Start Date:	Not Reported
Completion Date:	18-AUG-84	Received Date:	27-AUG-84
Tax Lot:	Not Reported	Hardness Amount:	Not Reported
Hardness Units:	Not Reported	Yield (gpm):	Not Reported
Post Static WL (ft):	0	Temperature:	Not Reported
Temperature Units:	Not Reported		
Log URL:	https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=DESC&wl_nbr=10167		

5
WNW **OR WELLS** **ORWDS8000056523**
1/2 - 1 Mile
Lower

WELLS:

Well Log ID:	64457	Log Type:	Water Well
Image ID:	63336	County:	DESC
Well Log #:	10168	Well Tag #:	Not Reported
Start Card #:	Not Reported	Primary Use:	UNKNOWN
Owner:	Not Reported	Bonded Name:	JIM J HANSEN
Bonded Company:	Not Reported	Bonded License #:	841
Owner #:	Not Reported	Company Job #:	Not Reported
New Work:	Y	Deepening Work:	N
Conversion Work:	N	Alteration Work:	N
Abandonment Work:	N	Other Work:	Not Reported
First Water Depth (ft):	0	Completed Depth (ft):	0
Casing Max Diameter (in):	10	Start Date:	Not Reported
Completion Date:	21-AUG-84	Received Date:	27-AUG-84

Tax Lot:	Not Reported	Hardness Amount:	Not Reported
Hardness Units:	Not Reported	Yield (gpm):	Not Reported
Post Static WL (ft):	0	Temperature:	Not Reported
Temperature Units:	Not Reported		
Log URL:	https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=DESC&wl_nbr=10168		

6
SE **OR WELLS** **ORWDS8000052339**
1/2 - 1 Mile
Lower

WELLS:

Well Log ID:	60077	Log Type:	Water Well
Image ID:	59152	County:	DESC
Well Log #:	5599	Well Tag #:	Not Reported
Start Card #:	Not Reported	Primary Use:	Domestic
Owner:	JOHN WEBB	Bonded Name:	LLOYD L MATHERS
Bonded Company:	MATHERS DRILLING CO.	Bonded License #:	231
Owner #:	Not Reported	Company Job #:	84
New Work:	Y	Deepening Work:	N
Conversion Work:	N	Alteration Work:	N
Abandonment Work:	N	Other Work:	Not Reported
First Water Depth (ft):	Not Reported	Completed Depth (ft):	570
Casing Max Diameter (in):	Not Reported	Start Date:	15-MAY-72
Completion Date:	27-JUN-72	Received Date:	21-AUG-72
Tax Lot:	Not Reported	Hardness Amount:	Not Reported
Hardness Units:	Not Reported	Yield (gpm):	2
Post Static WL (ft):	543	Temperature:	52
Temperature Units:	Not Reported		
Log URL:	https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=DESC&wl_nbr=5599		

C7
ENE **OR WELLS** **ORWDS8000052309**
1/2 - 1 Mile
Lower

WELLS:

Well Log ID:	60047	Log Type:	Water Well
Image ID:	59122	County:	DESC
Well Log #:	5568	Well Tag #:	Not Reported
Start Card #:	Not Reported	Primary Use:	Domestic
Owner:	JOEL HAMMAGREN	Bonded Name:	LAND OWNER
Bonded Company:	LAND OWNER	Bonded License #:	999999
Owner #:	Not Reported	Company Job #:	Not Reported
New Work:	N	Deepening Work:	N
Conversion Work:	N	Alteration Work:	N
Abandonment Work:	Y	Other Work:	Not Reported
First Water Depth (ft):	0	Completed Depth (ft):	0
Casing Max Diameter (in):	Not Reported	Start Date:	03-JAN-80
Completion Date:	Not Reported	Received Date:	03-JAN-80
Tax Lot:	Not Reported	Hardness Amount:	Not Reported
Hardness Units:	Not Reported	Yield (gpm):	Not Reported
Post Static WL (ft):	0	Temperature:	Not Reported
Temperature Units:	Not Reported		
Log URL:	https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=DESC&wl_nbr=5568		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C8
ENE
1/2 - 1 Mile
Lower

OR WELLS **ORWDS8000048142**

WELLS:

Well Log ID:	55747	Log Type:	Water Well
Image ID:	54128	County:	DESC
Well Log #:	522	Well Tag #:	Not Reported
Start Card #:	Not Reported	Primary Use:	Domestic
Owner:	HAROLD HARMS	Bonded Name:	BOB MCCOY
Bonded Company:	MCCOY & SON WELL DRILLING CO.		
Bonded License #:	594	Owner #:	Not Reported
Company Job #:	Not Reported	New Work:	Y
Deepening Work:	N	Conversion Work:	N
Alteration Work:	N	Abandonment Work:	N
Other Work:	Not Reported	First Water Depth (ft):	30
Completed Depth (ft):	40	Casing Max Diameter (in):	Not Reported
Start Date:	08-DEC-75	Completion Date:	09-DEC-75
Received Date:	27-APR-76	Tax Lot:	Not Reported
Hardness Amount:	Not Reported	Hardness Units:	Not Reported
Yield (gpm):	6	Post Static WL (ft):	30
Temperature:	51	Temperature Units:	Not Reported
Log URL:	https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=DESC&wl_nbr=522		

C9
ENE
1/2 - 1 Mile
Lower

OR WELLS **ORWDS8000052307**

WELLS:

Well Log ID:	60045	Log Type:	Water Well
Image ID:	59120	County:	DESC
Well Log #:	5566	Well Tag #:	Not Reported
Start Card #:	Not Reported	Primary Use:	Domestic
Owner:	JOEL HAMMAGREN	Bonded Name:	CECIL TACKITT
Bonded Company:	HURST WELL DRILLING CO	Bonded License #:	318
Owner #:	Not Reported	Company Job #:	Not Reported
New Work:	Y	Deepening Work:	N
Conversion Work:	N	Alteration Work:	N
Abandonment Work:	N	Other Work:	Not Reported
First Water Depth (ft):	Not Reported	Completed Depth (ft):	633
Casing Max Diameter (in):	6	Start Date:	18-AUG-64
Completion Date:	10-NOV-64	Received Date:	09-DEC-64
Tax Lot:	Not Reported	Hardness Amount:	Not Reported
Hardness Units:	Not Reported	Yield (gpm):	4
Post Static WL (ft):	585	Temperature:	Not Reported
Temperature Units:	Not Reported		
Log URL:	https://apps.wrd.state.or.us/apps/misc/vault/vault.aspx?wl_county_code=DESC&wl_nbr=5566		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OR Radon

Radon Test Results

Zipcode	Num Tests	Maximum	Minimum	Average	# > 4 pCi/L
97702	10	2.7	0.1	1	0

Federal EPA Radon Zone for DESCHUTES County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for DESCHUTES COUNTY, OR

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.820 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Data
Source: Oregon Geospatial Enterprise Office
Telephone: 503-378-2166

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data
Source: Department of Water Resources
Telephone: 503-986-0843

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations
Source: Department of Geology and Mineral Industries
Telephone: 971-673-1540
A listing of oil and gas well locations in the state.

RADON

State Database: OR Radon
Source: Oregon Health Services
Telephone: 503-731-4272
Radon Levels in Orgeon

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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