Finance Department
1204 NE 201st Avenue
Fairview, OR 97024
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May 18, 2016

RFP– CM/GC New Wilkes Replacement Elementary School

Addendum #1

From: Robert Collins
Senior Project Manager
Day CPM Services

REQUEST FOR PROPOSALS

CM/GC for the Wilkes Replacement Elementary School

Reynolds School District

The RFP for the above referenced project and the work covered are modified as follows, and except as set forth herein, otherwise remain unchanged and in full effect. This addendum is part of the RFP solicitation Documents for the above named project and modifies the original RFP Documents dated May 11, 2016. Acknowledgement of receipt of this addendum is required as part of the Proposal.

Item #1 APPENDIX A Project Description: (Add the following information)

- **Wilkes Replacement Elementary School Schematic Design Documents**

Attachments:

- Schematic Design Note Book by BLRB Architects, dated May 2016
- Schematic Design Documents by BLRB Architects
- Pre-Demolition Hazardous building Material Survey Report of Wilkes Elementary School by PBS Engineering and Environmental dated February 2016
- Topographic Survey of Wilkes Elementary School by Chase Jones & Associates dated March 23, 2016
- Phase 1 Environmental Site Assessment of Wilkes Elementary School by GeoDesign, Inc. dated April 12, 2016
- Report of Geotechnical Engineering Services for Wilkes Elementary School by GeoDesign, Inc. dated April 26, 2016
- Findings of Fact for Exemption from Competitive Bidding and the use of the Construction Manager/General Contractor (CM/GC) Method of Contacting for the Reynolds School District #7 Three New Replacement Elementary Schools – Resolution No. LCRB 2015-2016-002

End of Addendum #1

APPENDIX A
Project Description

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- **District Local and Diverse Community Engagement Program (CEP)**
- **Reynolds School District Background & Security Verification Process flow chart**

WILKES ELEMENTARY SCHOOL

Reynolds School District



SCHEMATIC DESIGN NOTEBOOK

MAY 2016

BLRB architects

Wilkes Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

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Wilkes Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

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SCHEMATIC DESIGN

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Wilkes Elementary School
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SCHEMATIC DESIGN

Civil – Narrative

STORM SYSTEM

Stormwater is expected to be managed by a combination vegetated planters and below grade infiltration soakage trenches. Per the geotech report prepared by GeoDesign dated April 26, 2016, shallow soakage trenches located 5.5 feet below the finished grade with a tested infiltration rate of 15 in/hr, the design infiltration rate will be 5 in/hr, using a factor of safety of 3. Due to shallow depths, grades will be a concern. The two different types of storm planters are indicated on the plans as listed below:

INF – Below grade infiltration gallery for roof and sidewalk only.

PSB– Planted Storm Basin (Vegetated planter) will treat parking lot and demonstrational planter near entry. Surface water will be infiltrated through a special soil mix during water quality storms. Gravel storage will be provided below the planter for larger storm events.

We will propose that the infiltration galleries located along the south will have an overflow system available to the public storm system. Since there is not a lot of room available on this side of the building this should provide additional capacity if the galleries fail.
A foundation drain will provided at all structures and connected to storm system.

GRADING / EARTHWORK

Contractor to include costs for 6-12 inch deep clearing and grubbing of all existing pervious areas (lawn, planters, landscaped areas, etc.)

The existing building basement can be abandoned in place. Contractor to remove all vertical wall structures down to 4 feet below finished grade, and fracture basement floor slab into a maximum size of 12-inches. Backfill with compacted structural fill.

The two existing drywells shall be abandoned and decommissioned in place, in accordance with state plumbing codes. Contractor to remove drywell structure to a depth of 4 feet below finished grade and backfill with pea-gravel.

SANITARY SYSTEM

A new 8 inch Sanitary sewer connection to NE 169th Ave is proposed. The size of this sanitary line will be confirmed with the plumbing engineer as design advances.
A grease interceptor will be provide just outside the kitchen and will need to be vented through the building. This will need to be coordinated with plumbing and city requirements.

SS-1 – Sanitary Sewer connection to building

GIS-1 – Grease Interceptor for kitchen waste.

DOMESTIC AND FIRE SPRINKLER

A 3 inch domestic water and 6 inch fire sprinkler are assumed service sizes for this building but will need to be confirmed by plumbing. There is a 12” ductile iron water service located on NE 169th ave. Rockwood Water District is the water provider. The water meter need to be located in the Right of Way and the backwater valves for fire sprinkler and domestic water will be located in accessible vaults on the property right at the property line. The fire department connection (FDC) will be located at the fire back flow vault. Irrigation will need to be coordinated with the District and Landscape but will need its own backwater valve located on the site. On site fire hydrants are likely required at the parent drop off.

WM – 3-inch water meter.

SCHEMATIC DESIGN

Civil – Narrative

FS – 6-inch Fire Service vault
BWV – Domestic Back Water Vault

GAS SERVICE

Gas service can be provided from NE 169th Ave. The current building is served by a 2" gas line.

GAS – Gas Service to building.

PUBLIC FRONTAGE

NE 168th Ave and NE Wilkes Road will need half street improvements with street lighting, driveway pans, Right of Way dedications, green streets, and utility undergrounding. Extents of this scope are expected to be clarified and confirmed during the pre-application meeting on May 11th. Two public Fire hydrants will need to be relocate with the new sidewalk.

GS – Green street storm planter located downstream for treating storm water. A public storm extension may be required for the green streets.
SL - Public street light

POWER

Power for the new school is expected to come from NE Wilkes Rd to the north. A new underground power line will be run south along NE169th Ave. A precast concrete pull vault is likely required due to the distance. The power line will be run to a proposed transformer located in the service yard at the SW corner of the site.

Wilkes Elementary School
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SCHEMATIC DESIGN

Landscape – Narrative

GENERAL APPROACH

The site development for this project will comply with the City of Gresham standards for development. Input and direction from the Reynolds School District representatives is also represented in the site development to date.

GENERAL SITE DESIGN DESCRIPTION

The site elements have been located to minimize earthwork, maximize parent and bus queuing from 169th Avenue, and utilize the site to its maximum potential. The proposed building is located in the current school's existing play field area. The existing school will maintain operation during construction of the new school. Upon completion of the new school, the existing school will be demolished and construction of the parking lot and play field will commence. The proposed school's finish floor elevation (FFE) is approximately 183.50'-184.00'. Parent and Daycare Van pick up and drop off is located to the northeast of the building. Bus pick up and drop off is located to the west of the building. It is intended for all walks on site to be universally accessible and will not require landings or handrails (except where specifically noted). Service and deliveries are located on the southwest side of the building. Overall site design and detailing of exterior improvements will reflect the desire to connect students with nature.

GRADING

The existing site topography is generally flat, with the highest elevations in the southeastern quadrant. Site elements will generally follow the natural gradient to minimize the amount of cut and fill. Stormwater features will be located at the low points of the northeastern side of the site. New walks will not exceed a 2% cross slope in any direction. Grades will be set based on proximity to existing roadways. Balancing cut and fill will be a goal for this project, however, determining the quantities is not possible at this point due to the lack of grading information on site and on 169th Avenue and NE Wilkes Road. We recommend creating an allowance for cut and fill.

LANDSCAPE AND IRRIGATION

Landscape areas will be planted with combinations of trees, shrubs, grasses, and accent plantings. The majority of the plants will be species native to Oregon or will be native "analogue" plants: plants that are adapted to similar climatic and growing conditions to native plants. The design will accommodate the mature size of the plants and trees selected and will also allow for low ongoing maintenance requirements and reduced life cycle costs. Throughout the site trees and landscape plantings will be designed to add visual interest, provide screening, create shade, and used at locations where mowing of lawns is not practical. Lawns will be seeded with a Rye Grass Fescue mix seed. Athletic fields will use a Three-way Rye Grass blend. All landscape and lawn areas will be irrigated. Tree plantings to the east of the play field and parking lot are intended to soften impacts of eastern winds. There are six main landscape types anticipated:

- Plant Beds: All plant beds shall have a minimum imported topsoil depth of 18" with 3" compost. All plant beds will have 3" minimum depth bark mulch. Tree plantings at parking lots to be 2.5" caliper minimum.
- New Lawns: All new lawns shall have a minimum imported topsoil depth of 12". Lawns throughout the site will be gently sloping from the south to the north.

SCHEMATIC DESIGN

Landscape – Narrative

- Turf Play Fields: All new turf fields shall be imported sandy loam type topsoil with a minimum depth of 12". Play fields to have 2 inches of compost incorporated into the top 4 inches. Lawn athletic fields to have a drainage system comprised of sand channels and 2 inch pvc perforated pipe at 10 feet on center.
- Storm Water Treatment Swale: It is anticipated storm water treatment areas will be located along the northeastern edge of the site. The treatment areas will have a minimum 18" imported specialty soil with 3" of compost till incorporated. Rock mulch will be installed at a 3" minimum depth.
- Landscape Buffers: There are two types of buffer areas on the site. The north and west edges of the property will have 20' wide Type A buffers. Within these buffers, trees are not required, but shall be planted at a total of 1 tree per 30 linear feet. The west and south edge of the site will have a more intensive 30' wide Type E buffer, requiring 1 tree per 15 linear feet and 60 shrubs per 100 feet.
- Green Roof: The school's design incorporates a green roof. This will be comprised of an irrigated modular tray system by Greenfeathers. Plantings shall consist of a mix of sedums and other plants with varying heights to add interest. A paver system will allow students to access and walk amongst the planted areas. A decorative guardrail system (5-6' tall) will serve as fall protection.

It is anticipated the existing irrigation on the site will be abandoned or removed. New site irrigation will be accomplished with an automatically controlled underground system. It will be designed and constructed to be as efficient in terms of water usage as possible. The irrigation system will be centrally controlled using an automatic controller. All lawn and landscape areas will have full head to head coverage. Rotor heads will be used at large lawn areas and play fields. Spray heads will be used at plant beds and small lawns. Irrigation heads to have check valves to prevent low head drainage and pressure regulation. All zone control valves to have pressure regulation devices. A new Double Check Valve, Master Valve, and Flow Sensor will be installed. Master Valve and Flow Sensor will be sized to match the mainline. Refer to Civil for water meter and source information.

PARKING AND DROP-OFF AREAS

The parking lot will be constructed of asphaltic concrete and integral concrete curb and walks along the perimeter. Curbs along parent, daycare van, and bus loading will be painted yellow. The raised walkway will be constructed using reinforced concrete. Refer to Geotechnical or Civil for paving profiles. Interior parking lot landscape planters incorporating tree and shrub plantings will be required. In general landscape plantings within parking lots will be low in height. Refer to electrical for parking lot lighting.

SPECIFIC AREAS OF DEVELOPMENT

MAIN ENTRANCE PLAZA

At the main building entrance assume 2000 sf of specialty paving consisting of colored concrete with an acid wash finish. Furnishing will include (3) steel 6 ft. benches with powder coat finish, and (2) steel litter receptacles with powder coat finish. Assume one (1) 30 ft commercial grade aluminum flagpole which will be illuminated. 8 hoop style bike racks to accommodate 16 bikes will be located along the north side of the building. Bike racks to be free standing, heavy gauge steel with galvanized finish. 15"

tall cast in place concrete seat walls and landscape plantings will be incorporated into the entrance plaza.

OUTDOOR COURTYARDS

Courtyards are to consist of seat walls, paving, and landscape areas conducive to outdoor learning through offering flexible environments. Assume a cumulative area of 4500 sf of specialty paving consisting of colored concrete with an acid wash finish. Crushed quarry sand areas at path nodes create enlarged spaces for classes to gather, and waysides for smaller groups to congregate. Outdoor classroom space may consist of specialty seating, furnishings, and equipment to support math, science, and art curriculum. Raised planter boxes for food gardens will be located near the northeastern side of the building. Water will be provided via hose bibs from the irrigation system. The central courtyard axis will contain demonstration stormwater gardens for educational purposes.

OUTDOOR PLAY AREAS

Hard surface play areas will consist of asphaltic concrete paving. Pavement markings, ball wall, and basketball hoops will be installed. The soft surface play area will be surfaced with an engineered wood fiber at a minimum depth of 16". Play equipment will be installed within the soft surface play area. The soft surface play area will have a rubberized surfacing, set on a concrete sub-base with subgrade drainage.

COVERED PLAY

Refer to Architecture.

CONCRETE WALKS AND PAVING

All walkways and paths will consist of medium broom finish concrete (except where specifically noted). All walks shall be universally accessible and will not require handrails. Cross slopes on walks will not exceed 2%. Concrete paving will be reinforced at all areas where vehicle traffic is anticipated including the service area, entry plaza, and outdoor play area. Refer to Geotchnical and Civil for paving profiles.

RETAINING WALLS

Landscape planter walls and seat walls will be formed cast in place (CIP) concrete. All walls shall have 4" perforated drain pipe and shall be damp proofed below the finish grade of the soil. All CIP concrete walls shall be treated with Degussa Protectosil. All walls located in public areas shall be skateboard-proof. Assume walls will have a grout rubbed finish. A 12-inch wide reinforced concrete mow strip will be located where new lawns abut vertical surfaces including building walls, signs, benches or other fixed exterior elements.

SERVICE AREA

A service area is located on the west side of the building. The service area will consist of reinforced concrete paving, an 8' tall decorative vision proof metal fence, heavy duty metal framed rolling gates to allow vehicle and service access, and swing gates to allow pedestrian access. Evergreen landscape plantings will be installed to visually screen the service area. The service area will contain refuse and recycling containers and allow for service and delivery access.

SCHEMATIC DESIGN

Landscape – Narrative

DEMOLITION OF EXISTING CONDITIONS

It is assumed that all existing structures, fences, and elements will be removed from the site. Refer to Architecture and Civil for additional demolition related to building and utilities. On site topsoil will be evaluated to determine suitability for use at lawns and potentially plant beds.

SITE FENCING

The play field areas will be enclosed with black vinyl coated chain link fencing with an 8' minimum height on the west and east sides, and a 12' height on the north side. All areas south of the building's north faces will be secured with 8' tall black decorative metal panel fencing, including the eastern and southern landscape buffer areas. This fencing will continue north along the eastern property line. The western outdoor seating area and main entrance adjacent to 169th Avenue will be secured with an 8' tall decorative black metal panel fencing.

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SCHEMATIC DESIGN

Structural – Narrative

GENERAL APPROACH

The structural system for Wilkes Elementary School will consist of structural steel framing with CMU walls at the gymnasium. The roof framing will consist of steel open-web joists at long span areas over the gymnasium, commons area, and media center. A five foot deep truss will be used at the proscenium opening. Other areas of the roof will be framed with a combination of steel wide flanged beams and open-web joists. The roof framing will support a 3" metal roof deck with acoustic deck at the gymnasium and commons area. Lightweight concrete topping may be added to the roof to help dampen sound.

At the second level, the floor will consist of concrete composite slabs with 3" concrete topping over a 3" metal floor deck. The slabs will be supported by steel wide flange girders and beams. The steel framing of the roof and floors will be supported by steel tube columns and CMU bearing walls. The foundation system for the structure will consist of conventional concrete spread footings with continuous footings under bearing walls. Per the geotechnical report by GeoDesign, the footings are to bear on a 4 inch thick granular pad underlain by undisturbed native soil or structural fill. The allowable bearing pressure is 2500 psf. The ground floor will consist of a reinforced 4" thick concrete slab on grade over 6" of gravel. An underground Radon removal piping system will be embedded below the slab. Lateral loads on the building will be resisted by a combination of steel braced frames and CMU shear walls.

SEISMIC RESILIENCY

The seismic resiliency of the building will be based on minimum code requirements conforming to the 2014 Oregon Structural Specialty Code (OSSC). School buildings are considered a risk category III structure so they are designed to a higher performance level than a standard office or retail building. Schools are designed with an Importance Factor of 1.25 as opposed to 1.0 for typical buildings. Therefore, they are designed for 25 percent higher seismic forces. If it is desired to design the school as an essential facility, similar to hospitals and emergency facilities, the Importance factor would be 1.5. Therefore, the school would have to be designed for a 20 percent increase in seismic forces. This increase in force would affect the lateral system, such as braced frames and shear walls, including foundations at those elements, as well as diaphragm connections and collectors. The increase in force would also affect non-structural elements such as MEP equipment anchorage and bracing. In our experience the increase in structural costs to design a school as an essential facility is $1.50 to $2.00 per square foot.

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SCHEMATIC DESIGN

Architectural – Narrative

BACKGROUND

The origin of the current Wilkes Elementary School dates to the late 1880s. Wilkes is the oldest school building in the Reynolds District No. 7.

Reynolds School District No. 7 completed a Facility Master Plan in 2015 which called for the replacement of the Wilkes Elementary School Building on the current site. An extensive assessment of the facility determined the building is a "high seismic risk", lacks compliance with accessibility requirements, and does not meet current educational standards. Costs to repair the existing building were found to greatly outweigh the cost to replace.

In May 2015, District voters approved a $125 million bond referendum which funded the construction, furnishing and equipping of this and other school improvement projects throughout the District.

PROPOSED PROJECT

To meet the school and District's needs, the Wilkes Elementary School building will be replaced on its 5.33 acre site located at the intersection of NE 169th Avenue and Wilkes Road NE.

The project is proposed to include construction of a new elementary school building of approximately 72,000 square feet to be located in a playfield south of the current building.

The current school will remain in operation until the new building is ready for occupancy. Demolition of the existing structure will follow remediation of hazardous materials in accordance with applicable regulations. Existing modular classrooms will also remain in use during most of the construction and will be removed. The current site of the buildings and modulars will then be developed into open fields, parking and student drop off areas.

The new building will increase student capacity and continue to house up to 588 elementary students in grades Kindergarten through 5th. The school will be designed to provide a student-centered learning environment supporting current and future instructional methods. A key principle of the Owner is to provide a safe and secure environment for the children. Improved outdoor instructional and play areas will be provided.

Safe and efficient traffic flow for buses and parents is also a prime consideration in the site planning. On-site automobile traffic is to be separated from school bus traffic to facilitate peak student loading and unloading at the beginning and end of the school day.

The main entry point for both students/staff and visitors will be configured with a secured vestibule such that at least one pair of double doors will enter direct into the entry corridor during the start of school and a secondary door will enter direct into the front office. Once school is in session, the direct corridor entry will be automatically locked. From the office, another door will be provided to bypass the secured vestibule once the individual has checked in with reception. All the doors in this configuration will be on the access control system and provided with ADA operators and card readers as needed.

SCHEMATIC DESIGN

Architectural – Narrative

The front office windows and reception desk will be designed to provide good visibility for natural surveillance of the main entry door configuration and the parking lot. The lockdown initiation button shall be installed in the reception desk.

Additionally windows and doors within this area will also be designed with safety film to deter or delay forced entry. Special consideration will be taken when selecting interior and exterior lighting as well as window treatments. Lastly clear and direct signage shall be provided to clearly note restricted access and direct visitors to the main entry to check in.

The project will comply with the Oregon Administrative Rules 1.5 Percent Green Energy Technology in Public Buildings. The project will employ a variety of approaches but are not yet determined to achieve the 1.5 percent. The 1.5 percent is to be spent on green energy technology based on the total contract price.

In addition to its educational purpose, the building serves Community uses as a key element of the design. Assembly spaces accessible to the community after school hours will include a gymnasium housing a high school size basketball court, a cafeteria (learning commons) with stage, a library, and a flexible classroom/multipurpose space.

A comparison of the existing and currently proposed facilities is summarized as follows:

Feature	Existing	Proposed
Student Capacity	451	588
Building Size (Sq. Ft.)	40,150	72,000
Classrooms	22	31
Modular Classrooms	8	0
Buses-Large	6	8
Buses-Special Education	2	4
Automobile Parking Capacity	37	68

Wilkes Elementary School
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SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

BUILDING ENVELOPE

The performance of the building envelope will be critical both to the energy efficiency of the building and to the comfort level of the occupants. The proposed mechanical systems and preliminary equipment sizing are based on the following performance for each envelope component:

Category	Option 1	Option 2	Option 3
Exterior Wall Construction	Overall U-Factor = 0.025, R = 40	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.064, R = 16	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.064, R = 16
Roof Construction	Overall U-Factor = 0.02, R = 50	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.05, R = 20	Oregon Energy Efficiency Code Min: Overall U-Factor = 0.05, R = 20
Windows	0-30% Glazing Assembly U-Value = 0.3 Solar Heat Gain Coefficient (SHGC) = 0.4	Oregon Energy Efficiency Code Min: 0-30% Glazing Assembly U-Value = 0.45, Solar Heat Gain Coefficient (SHGC) = 0.4	Oregon Energy Efficiency Code Min: 0-30% Glazing Assembly U-Value = 0.45, Solar Heat Gain Coefficient (SHGC) = 0.4
Infiltration	0.18	Not Regulated	~0.05 cfm/sq.ft.
Orientation	As Designed	Average of (4) 90° rotations	As Designed

Table 1: Envelope Component Performance

MECHANICAL HVAC SYSTEMS DESIGN CRITERIA

Outdoor Conditions	Summer	Winter
ASHRAE 0.4% Summer and 99.6% Winter Data	91°F DB/ 68°F WB	24°F

Table 2: Outdoor Conditions

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Indoor Conditions	Summer	Winter
Offices and Classrooms	74°F ±2°F	70°F ±2°F
Cafeteria	74°F ±2°F	70°F ±2°F
Media Center	74°F ±2°F	70°F ±2°F
Storage	85°F ±2°F	60°F ±2°F
Circulation and Restrooms	78°F ±2°F	68°F ±2°F
Relative Humidity	<50% ±5%RH	No control

Table 3: Indoor Conditions

Outside Air Requirements	
General Office	20 CFM/person
Classrooms	15 CFM/person
Exhaust Air Requirements	
Restrooms and Janitors	2.0 CFM/sq ft
Acoustical Criteria	
Offices	RC 40
Classrooms	RC 30
Public/Open Areas	RC 45
Internal Loads	
Naturally ventilated space temperatures should based on outside air temperature and the following table from ASHRAE Standard 55: Acceptable operative temperature ranges for naturally conditioned spaces	

Table 4: Indoor Conditions

Low-Pressure Ductwork	
Static Pressure Loss	Maximum 0.1 inches WC per 100 feet
Main Velocity	Maximum 1,500 feet per minute
Branch Velocity	Maximum 1,200 fpm
Flexible Ducts	Maximum length 7 feet/ minimize total 90° bends.
Medium-Pressure Ductwork	
Static Pressure Loss	Maximum 0.28 inches WC per 100 feet
Main Velocity	Maximum 2,400 feet per minute
Branch Velocity	Maximum 2,000 fpm
Hydronic Piping	
Static Pressure Loss	Maximum 4 feet WC per 100 feet
Velocity	Maximum 7 feet per second

Table 5: Duct and Pipe Sizing Criteria

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

HVAC Systems Option 1

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A super-performing envelope (see Section 2.0) will allow for passive heating in the classroom areas. This means that the heat loss through the envelope will be lower than the heat generated inside the space due to occupants, lights, and plug loads when the outside air temperature is 35F or above. For night low limit and colder days, electric cove heaters will be provided to maintain space temperature. Cooling will be achieved through operable windows.

The media center will be provided with a packaged roof A/C unit equipped with gas heat.

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and gas heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units. Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM ERVs, flat plate w/ electric heating coil (Ventilation air) – Renewaire
- (1) 6,000 CFM ERVs, flat plate w/ electric heating coil (Ventilation air) – Renewaire
- (1) Gas Fired MAU – 1,000 CFM
- (1) Media Center Packaged Rooftop unit A/C unit with Gas Heat– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (2) Gym rooftop AHU w/ heat recovery & gas heat – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF)- Aaon
- (1) Commons rooftop AHU w/ heat recovery & gas heat – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (2 per classroom) 1.5 kW Cove heaters (Qmark)
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF)

HVAC Systems Option 2

High efficiency, gas-fired, condensing boilers will be located in first floor mechanical room. Boilers will provide heating water to heating coils in AHU's and space heating equipment.

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A code envelope will be provided. Finned tube radiators at the perimeter will be provided to maintain space temperature. Cooling will be achieved through operable windows.

The media center will be provided with a packaged roof A/C unit equipped with hydronic heat.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and hydronic heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units. Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (2) 6,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (1) Hydronic MAU – 1,000 CFM
- (2) 1,500 MBH Condensing Boilers - Crest
- (2) 150 GPM Pumps
- (1) Media Center Packaged Rooftop A/C unit with hydronic heating coil– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (1) Gym rooftop AHU w/ heat recovery & hydronic heating coil – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF) - Aaon
- (1) Commons rooftop AHU w/ heat recovery & hydronic heating coil – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF)
- Perimeter finned tube radiation with sloped top

HVAC SYSTEMS OPTION 3

High efficiency, gas-fired, condensing boilers will be located in first floor mechanical room. Boilers will provide heating water to heating coils in AHU's and space heating equipment. A changeover valve will be provided so that a future air cooled chiller can be connected to the hydronic distribution system to provide cooling to the classrooms in the future.

100% OSA will be provided to classrooms via heat recovery units (HRU) located on the roof. A code envelope will be provided. Radiant ceiling panels or radiant floors will be provided to maintain space temperature. Cooling will be achieved through operable windows. Future cooling could be provided by circulating chilled water through the radiant system.

The media center will be provided with a packaged roof A/C unit equipped with hydronic heat.

The gym and commons area will each be provided with a heating and ventilating unit equipped with heat recovery and hydronic heat.

The administration area will be conditioned using a variable refrigerant flow (VRF) heat pump system. The VRF system will consist of an exterior air-cooled condensing unit and interior fan coil units. Refrigerant piping will extend from the air-cooled condensing unit to serve the indoor fan coil units.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Ventilation air will be supplied via a dedicated outside air (DOAS) unit with heat recovery located on the roof.

Equipment List:

- (2) 5,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (2) 6,000 CFM HRU's w/ hydronic heating coil (Ventilation air) - Aaon
- (1) Hydronic MAU – 1,000 CFM
- (2) 1,500 MBH Condensing Boilers - Crest
- (2) 150 GPM Pumps
- (1) Media Center Packaged Rooftop A/C unit with hydronic heating coil– 5,000 CFM, 6.5 tons cooling, 93 MBH heating (1.5 CFM/SF) - Aaon
- (1) Gym rooftop AHU w/ heat recovery & hydronic heating coil – 10,000 CFM, 12 tons cooling, 180 MBH heating (1.5 CFM/SF) - Aaon
- (1) Commons rooftop AHU w/ heat recovery & hydronic heating coil – 6,000 CFM, 8 tons cooling, 120 MBH heating (1.5 CFM/SF) – Aaon
- (1) Admin VRF Condensing unit, 6.5 tons cooling, 93 MBH heating - Daikin
- (1) Admin DOAS AHU -5,000 CFM (1.5 CFM/SF) Radiant ceilings (60% of ceiling area) or radiant floors with a zone per each classroom.

COMPARISON OF OPTIONS

1 = Highest Cost5 = Lowest Cost

System Options			
System	Option 1	Option 2	Option 3
System Description	Passively heated and cooled classrooms	Actively heated classrooms	Actively heated classrooms with option of future cooling
Capital Cost	Low	Medium	High
Annual Energy Savings	High	Medium	Medium
Energy Savings Incentive Potential	High ETO	Medium ETO	Medium ETO
Service Life	10 years cove heaters 40+ years envelope	20 years	20 years
Advantages	1. No chiller 2. No boilers 3. Low maintenance 4. Least energy use 5. Reduced heating energy cost	1. Traditional system. 2.	1. Potential to add cooling to classrooms

System Options			
Disadvantages	1. Dependent on envelope performance. 2. No cooling possible	1. Added maintenance cost. 2. Not able to add cooling in future.	1. Higher first cost.

Table 6: Heating System Options

EXHAUST SYSTEMS

Exhaust air for toilet rooms, janitor's closets, copy rooms, general room exhaust and similar uses will be ducted to the roof and used for heat recovery in the classroom and admin areas. Kitchen will be served by a Type 1 and Type 2 exhaust fan connected to hoods specified by the Kitchen Consultant.

CONTROLS

A direct digital control (DDC) system will be provided to control and monitor all HVAC equipment and systems. Valve and damper actuation will be electric type. The control system will be integrated into the existing campus system to allow full control and monitoring from the existing operator's terminal. The control system will perform all required control functions, including optimization of equipment and system performance, reliability, equipment life and energy consumption.

An extensive measurement and verification system is anticipated to carefully monitor all of the building's energy use.

PLUMBING SYSTEMS DESIGN CRITERIA

Domestic Water Piping	
Minimum Pressure	35 PSI at most remote outlet
Maximum Pressure	80 PSI
Static Pressure Loss	Maximum 6 psi per 100 feet
Velocity	Maximum 8 feet per second (Cold Water) Maximum 5 feet per second (Hot Water)
Storm Drainage	
Rainfall Rate	Maximum 1.3 Inch/hr
Piping Slope	Minimum 1/8" per foot
Waste and Vent Piping	
Sizing	
Piping Slope	Minimum 1/4" per foot
Solar Hot Water Piping	
Static Pressure Loss	Maximum 6 psi per 100 feet
Velocity	Maximum 5 feet per second

Table 7: Plumbing Piping Sizing Criteria

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

PLUMBING FIXTURES

Commercial grade low flow fixtures will be provided where indicated on the architectural drawings.

Plumbing Fixture Types and Locations						
Fixture	Location	Type	Control	Flow	Basis of Design	Notes
WC-1 Water Closet	Restrooms	Wall hung, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	
WC-2 Water Closet	Restrooms (ADA wheel chair and ambulatory stalls)	Floor mounted, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	Seat at 18-inches above floor, centerline at 17-inches from wall
WC-3 Water Closet	Restrooms	Junior, Wall hung, vitreous china	Sensor Operated flush valve	1.28 GPF	Kohler water closets with Sloan flush valve	Seat at 10-3/4" inches above floor
L-1 Lavatory	Restrooms	Counter mounted, vitreous china	Sensor Operated	0.5 GPM	Kohler sink basin with Delta faucet	All locations are ADA accessible
U-1 Urinal	Restrooms	Floor mounted, vitreous china	Sensor Operated flush valve	0.5 GPF	Kohler Urinal with Sloan flush valve	
U-2 Urinal	Restrooms (ADA)	Floor mount, vitreous china	Senor Operated flush valve	0.5 GPF	Kohler Urinal with Sloan flush valve	Rim mounted at 17-inches above floor

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Plumbing Fixture Types and Locations						
Fixture	Location	Type	Control	Flow	Basis of Design	Notes
S-1 Sink	Kitchenettes	Self rimming, counter mounted, Stainless steel	Single lever faucet, swing spout	1.5 GPM	Elkay sink basin with Delta faucet	ADA faucet
DF-1 Drinking fountain with bottle filler	Varies	Dual height with bottle filling station, stainless steel	Front push pad operation for drinking fountains and sensor operation at bottle filler	1.5 GPM at bottle filler	Elkay	Non-refrigerated

Table 8: Plumbing Fixture Types and Locations

Commercial grade fixtures will be provided where indicated on the architectural drawings. Refer to table below for representative flow rates for each type of fixture.

Water closets, urinals and lavatories will be low flow type.

Kitchen Faucets will be Code Flow type.

Fixture Type	Code Flow	Low Flow	Ultra-Low Flow	No Flow	ASHRAE 189	Proposed
Water Closet	1.6 GPF	1.6/1.1 GPF Dual Flush	1.28 GPF	Composting	1.28 GPF	1.28 GPF
Urinal	1.0 GPF	0.5 GPF	0.125 GPF	Waterless	0.5 GPF	0.5 GPF
Lavatory – commercial	.5 GPM	1.0 GPM	0.5 GPM	--	0.5 GPM	0.5 GPM
Shower	2.5 GPM	2.0 GPM	1.5 GPM	--	2.0 GPM	1.5 GPM
Kitchen Faucet	2.5 GPM	2.2 GPM	2.0 GPM	--	2.2 GPM	2.0 GPM
GPF = Gallons per Flush GPM = Gallons per Minute						

Table 9: Fixture Options and Alternates

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

DOMESTIC COLD WATER SYSTEM

An existing water main located in NE 169th Ave will serve the domestic water system. A 4-inch water service will be extended to the building and connect to the new service provided by Civil. The backflow device on the incoming domestic water supply will be located in a vault by civil. The domestic water system shall be provided with positive means to control backflow, with appropriate backflow preventers at sources of possible contamination within the building, such as mechanical equipment or industrial cold/hot water systems.

Cold water will be distributed to the plumbing fixtures. Refer to Architectural Drawings for plumbing fixtures and room locations. Freeze-proof hose bibs to be distributed around perimeter of building at every 100 feet, and be provided for the service yard.

Type L copper piping will be used for all above grade water piping and Type K copper will be used for below grade piping.

Irrigation: A backflow device will be provided for the irrigation system within the water service room. Irrigation piping will be stubbed out of the building for the landscape use.

DOMESTIC HOT WATER SYSTEM

Domestic hot water and will be provided from two electric hot water heaters serving the classroom pods (one served the east pod, the other serves the west pod). A high-efficiency gas-fired water heater will serve the Kitchen loads. The domestic hot water system components shall be controlled by the building management system. A master thermostatic mixing valve will temper the hot water to 120°F for general use, and an additional thermostatic mixing valve will provide tempered water at 90°F for emergency fixture use.

A recirculating hot water loop and hot water circulation pump will be provided. The water heaters will produce 140°F for health and equipment efficiency purposes. A master mixing valve assembly will be utilized at water heaters to temper the hot water for plumbing fixture use to deliver 120°F hot water. Expansion tanks will be provided on hot water systems at water heaters to eliminate pressure buildup when the system is not being used.

Equipment:

- (1) 150 MBH condensing gas water heater w/ 100 gallons storage capacity
- (2) 45kW electric water heater w/ 120 gallons storage capacity
- (3) Recirculation pump
- (3) Expansion tank
- (3) Master mixing valves

All domestic hot water supply and return piping shall be type L copper with soldered or brazed joints.

STORM DRAIN SYSTEM

A roof and overflow drain system will be provided as required by code. Overflow storm drain system will daylight utilizing downspout nozzles at the first floor level above grade. The storm water piping shall be routed to the west side of the building to an underground civil connection.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

SANITARY SEWER SYSTEM

Sanitary waste and vent piping will be provided toilet rooms and other spaces as required. A grease waste system will be provided for the Kitchen with the grease interceptor located on the west side of the building by civil. Sump pumps will be provided for elevator shafts, and connected to the gravity sanitary system within the building.

All sanitary waste and vent piping shall be cast iron with no-hub couplings.

NATURAL GAS SYSTEM

A new natural gas service will be provided from an existing gas main. Gas piping up to, and including the gas meters will be by NW Natural.

All natural gas piping shall be schedule 40 black steel with screwed or welded fittings.

Natural gas will be extended to serve the new boilers, water heaters, gas fired AHUs and Kitchen loads. Connection to the gas meter and installation of the house gas piping shall be per local gas company and OSSC requirements.

Separate gas sub-meters will be provided for the Kitchen and mechanical loads.

FIRE PROTECTION SYSTEMS DESIGN CRITERIA

Hazard Level	
Office and Classroom Areas	Light Hazard
Mechanical & Storage Areas	Ordinary Hazard

Table 10: Hazard Levels

WET PIPE SPRINKLER SYSTEM

A 4-inch fire service will be provided and enter the building at the Riser Room.

The entire building will be totally sprinklered in accordance with NFPA 13. A detector double check assembly will be provided for the fire service in the riser room. The fire department connection (FDC) will be located on the building, at a location to be determined.

All required system isolation valves shall be provided with tamper switches. Each floor shall be provided with a zone isolation valves with tamper switches, flow switches, fire department test stations, and hose valves (as required). The fire department test drain shall terminate outside of the building. All fire protection system materials to be of a domestic manufacture.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Fire sprinkler heads to be chrome plated semi-recessed pendant type with polished chrome escutcheons in finished areas and upright rough brass finish type heads in unfinished areas. Horizontal dry sidewall sprinkler heads will be provided for overhangs, loading dock, and other perimeter areas subject to freezing. Quick-Response heads will be provided in all light hazard areas.

DRY PIPE SPRINKLER SYSTEM

Dry pipe sprinkler systems will be used where sprinklers are subject to freezing such as exterior covered walkways connected to the building and overhangs. Dry pipe systems shall be galvanized inside and out, threaded or with cut grooves.

ELECTRICAL SERVICE AND DISTRIBUTION DESIGN CRITERIA

Load Densities: Lighting and Power Systems

The following load allowances will be provided for the project:

Area	Lighting Systems (VA/sf)	Power Systems (VA/sf)
Offices	1.0 – 1.1	7 – 10
Class Rooms	1.25 – 1.4	25*
Circulation/Transition	0.5 – 0.6	1.0
Service Areas	0.5 – 0.6	0.5
Stairs	0.5 – 0.6	0.5
Restrooms	0.9	1.0
Storage	0.9	0.5
Mechanical/Electrical Areas	0.9	0.5

Table 11: Lighting and Power Load Densities

SERVICE

The main power service will be provide by the local utility, PGE. The project will provide the conduit system to the service tie in point, as designated by PGE, and a transformer vault in the service yard. PGE will provide the service conductors and the service transformer.

DISTRIBUTION

The main service will be approximately 2000 amps and the main service voltage of 480Y/277V will be used to feed lighting and large mechanical loads. A secondary voltage of 208Y/120V will be derived using energy efficient dry type transformers.

The main 480vac service panel (MDP) will be located in the main electrical room on level 1 SW corner of the building, also located in the main electrical room will be a step down transformer and 208vac sub-distribution panel. These two distribution panel will provide services to the branch panels through the building.

480vac and 208vac branch panels and local step down transformers will be provided throughout the building, and located in dedicated electrical rooms, as required for local area receptacle and lighting circuiting requirements, with areas of coverage as follows:

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Level 1:

- Kitchen: a 480vac panel, step down transformer and 208vac panels, located back of house kitchen space.
- Gym: a 480vac panel, step down transformer and 208vac panels, located in the gym office, flush mounted.
- Admin area: a 208vac panel for branch circuits.
- Classroom pods: (three areas) a 480vac panel, step down transformer and 208vac panels, located in electrical rooms.

Level 2:

- Mechanical room: a 480vac panel, step down transformer and 208vac panels, located in the mechanical room.
- Classroom pods: (three areas) a 480vac panel, step down transformer and 208vac panels, located in electrical rooms.

Refer to attachments for locations of electrical equipment panels and estimated sizes of electrical rooms.

Branch Circuit Wiring: Copper conductor in EMT raceway. Each branch circuit will be provided with a dedicated neutral conductor.

Building Power Receptacles: Receptacles will be provide throughout the building interior spaces as appropriate for the space usage. Service/maintenance receptacles will be provide at the exterior, in the electrical and mechanical spaces and the roof top. Ground fault circuit interrupter receptacles will be provided in toilet rooms at sinks, roof, outdoor and wet areas or as code required.

Equipment Connections: Electrical power connections will be made to all mechanical equipment, to include providing all electrically associated devices such as disconnect switches, contactors, magnetic or manual starters, lock-out switches, etc., not furnished under Division 23. VFD's furnished under Division 23 and installed under Division 26.

Electrical power connections will be made to support miscellaneous equipment. Connections include disconnect safety switches and wiring to support interlocks to remote devices.

Kitchen Equipment Connection: electrical connections to kitchen equipment will be based upon the requirements as designated by the kitchen consultant, kitchen spaces will be provided with GFCI type receptacles. Connections to the kitchen cooler and freezer will be from the diesel generator power source.

ON-SITE POWER SYSTEMS

EMERGENCY GENERATOR

Emergency (egress lighting) and Optional Standby power will be provided by a diesel fired generator. The diesel generator will be a self-contained, exterior located unit with a weather proof housing and a

built in base fuel tank. The generator is to be located at the service yard at the SW corner of the building. The base fuel storage tank will provide for a minimum of 12 hours power source operation.

Separate automatic transfer switches (ATS) are provided for emergency loads and optional standby loads. Emergency loads will be those designated as life safety meeting the criteria of NEC 700, mainly the egress lighting. Optional Standby loads (NEC 702) will include the telecom room loads, kitchen coolers/freezers, gym lighting, mechanical, electrical and telecom room lighting.

The ATS(s) and associated 408vac, stepdown transformer and 208vac panel will be located in a dedicated electrical room next to the main electrical room.

UNINTERRUPTIBLE POWER SUPPLY (UPS)

UPS (Uninterruptible Power Supply) power will be provided using a battery storage UPS unit. UPS will be located in the telecom MDF, IDF rooms. The UPS will be powered from the generator source and provide the transition time from loss of utility power to start and transfer of load to the generator and, the return to the utility upon confirmed stability of the source.

RENEWABLE POWER SUPPLY (PV)

The potential to add a renewable photovoltaic system or a system that is "PV-ready" are being considered. The PV system would tie into the main power service at the main electrical room panel. Electrical power generated would be first used to serve the building needs and surplus not consumed by the building electrical system, would be sent to the electrical utility company.

GROUNDING SYSTEM

Two grounding criteria will be addressed, safety and performance. A safe grounded power system will be provided in compliance with the NEC. This ground system consists of the building service ground (multiple ground rods, connections to the building slab rebar, and bonding to the water service and structure steel. The safe grounding system will be extended thru out all electrical systems in facility. All metallic systems will be grounded to the building grid. A dedicated ground conductor will be provided with each feeder and branch circuit. A copper ground buss will be provided in each MDF and IDF room and tie to the main grounding system, the telecom equipment will be grounded to the buss.

LIGHTING DESIGN CRITERIA

Area	Source	Light Level Ambient (ave FC)	Light Level Emergency (ave FC*)
Offices	LED	10-20	1.0
Circulation/ Transition	LED	15 – 25	1.0
Service Areas	LED	15 – 25	NA
Stairs	LED	15 – 25	1.0
Restrooms	LED	30 – 40	1.0
Storage	LED	15 – 25	NA

Mech/Elec Areas	LED	35 – 45	1.0
Classrooms	LED	15-25	1.0
(* Emergency Lighting: Emergency lighting system and panel capacity will be designed on the basis of 0.25 volt-amperes/sq. ft. of gross space)			

Table 12: Lighting Design Criteria

SITE LIGHTING

Building lighting will be integrated with the building exterior features. Illumination will be provided for passage and security/safety, and to provide highlights to the exterior elements. Site illumination will use a combination of pole mounted lighting for parking areas and shorter pole mounted lighting and bollards for circulation areas. The source type used will be LED, height and style will depended on the luminaire location and distance from the lit task. All exterior luminaires will use cutoff optics to address light trespass issues. Lighting control will be photocell and programmable timeclock controls.

INTERIOR LIGHTING

The electrical lighting systems will be designed in compliance with the State of Oregon Structural Specialty Code. Energy efficient sources and automatic control technologies will be implemented to provide the most efficient and effective electric lighting system for the facility occupants and task. Controls will provide switching and dimming of the lighting to permit maximum use of the available natural light.

Designs will be based on LED technology sources for the project. The type of luminaire will be coordinated with area task. Illumination issues to be addressed include lighting levels, photo-sensitive areas, uniformity and glare.

LIGHTING CONTROLS

Control of lighting will be provided by the following methods for the respective tasks/areas:

Task/Area	Control Method
Building Exterior and Site	Time Clock and Photocell
Corridors	Corridor Occupancy Sensor for Egress Lighting, Timeclock control for normal lighting.
Classrooms Spaces	Wall Switches, Occupancy sensors, Daylighting dimming
Offices	Occupancy (vacancy) Sensor with manual override switch
Gym / Commons	Wall Switches and afterhours timeclock
Stage	Wall Switches / dimmers
Media Center	Occupancy (vacancy) Sensor with manual override switch
Maintenance Spaces	Occupancy (vacancy) Sensor with manual override switch

Restrooms	Occupancy Sensor with manual override switch
Mech/Elec/Data rooms	Wall switches

Table 13: Lighting Control Methods by Area

SIGNAL SYSTEMS

FIRE ALARM

The Fire Alarm system will consist of a supervised addressable supervised, Class B hard wired system. Manual pull stations will be provided at each exit and exit leaving an elevated floor.

Device	Coverage
Manual pull stations	Located in the main office.
Smoke Detectors	Air handlers (>2,000CFM), Fire Smoke Dampers, Elevators lobbies, Elevator machine rooms, Elevator hoistways.
Fire Sprinkler	Tamper and Flow
Annunciation	Remote Annunciation at entry
Building Annunciation	Voice Evac and Strobe annunciation thru out the facility.
System output	Relay interface for mechanical system shut down and elevator recall.
Monitoring	Central Station Monitoring

Table 14: Fire Alarm Device Coverage

TECHNOLOGY

TELECOM SYSTEM INFRASTRUCTURE

The new Wilkes ES will be connected to the District's Wide Area Network (WAN), and a "to be determined" ISP (Internet Service Provider), where new copper and fiber will be extended from the ISP's nearest connection facility to the telecommunications equipment room (ER) located on the first floor near the SW corner of the school. The ER will house the voice, network, security and video distribution head ends for the school. The ER will also serve as a TR for the immediate area (within 90 meters) and the demarcation point for an ISP. The minimum size for the ER will be 144 sq. ft., with no wall dimension less than 12 feet long.

In addition to one ER, there will also be two telecommunication rooms (TR). These TRs will serve the rest of the school, housing voice, data and video equipment. The minimum size for a TR shall be 72 sq. ft. with no horizontal wall less than 8 feet.

The ER and each TR will require grounding and bonding, cable tray and ladder rack that is seismically braced to meet all AHJ codes. The ER will house at least 6 freestanding telecommunications equipment racks. Each TR will house at least two equipment racks.

Cabling systems provided will be a mix of both optical and copper systems, all plenum rated. The intra-building fiber optic cable will be, at least, 12-strands of 50/125um multimode fiber. This fiber will mainly be used to connect each TR to the ER. Horizontal copper cabling will be provided using a minimum Category 6 cabling, with an exception of installing Category 6A cable to wireless access points

(WAP). Each work area outlet (WAO) will have a minimum of two cables installed to the faceplate. Pathways will be cable tray above the ceiling in the hallways and conduit from each WAO to within 6" of the cable tray. Maximum horizontal cable distance will by 90 meters.

Wireless access points (WAP) are also to be provided as part of the new Wilkes ES. The layout of these WAPs will be designed with maximum coverage in mind as well as following the standards within the "Telecommunications Infrastructure Standards" document, provided by NIS.

PAGING/INTERCOM SYSTEM/CLOCK SYSTEM

A paging/intercom/clock system will be designed in coordination with architectural features and RSD operational requirements. Detailed design and specifications will be coordinated with eventual system installer.

Typical school paging/intercom/clock systems consist of the ability to communicate with specific rooms/classrooms and also to communicate with the entire school at once.

ELECTRONIC SECURITY SYSTEM

An access control system will be designed per RSD standards. The project will utilize standards currently being developed on the RSD Secure Vesibule project.

Security design will incorporate CCTV, building security and access control design. Main areas of coverage will include all entry and exit points, areas where a high concentration of activity occurs, parking lots and locations that do not have direct line of sight from teachers and other admin staff. Entrances that require card reader access and panic access controls will be designed with coordination with the RSD and their designated security consultant.

AV SYSTEM

AV systems will be designed with coordination with RSD standards.

- Classrooms:A/V connections for the teacher's desk to a wall or ceiling mount projector and external audio input.
- Multipurpose Room: A/V connections to a projector with external audio.
- Conference rooms: A/V connections to a wall-mount display or projector, depending on the size of the room. Floor-boxes will also be designed as part of all conference room designs to include power connections, data connections and A/V connections.
- Gymnasium: A/V connections will be designed to support a large audience for video and audio needs.

DISTRIBUTED ANTENNA SYSTEM (DAS)

Public Safety Network (PSN) DAS will be designed to allow first responders to communicate from within the building to their dispatch location and to communicate with other responders located outside of the building.

SCHEMATIC DESIGN

Mechanical Electrical Technology – Narrative

Standard arrangement for the PSN DAS system will be to include small radiating antennas mounted throughout the school. A main donor antenna receives signals from the outside and rebroadcasts them inside the building to areas that first responder's radios may not be able to communicate with the outside world on their own (based on building materials and architecture).

PSN DAS systems require higher fire ratings for their system's cable pathways. The coax backbone cabling to the donor antenna outside requires a 2HR fire rating. The horizontal cabling for the PSN DAS require a 1HR fire rating. The PSN DAS headend equipment also require to be located within a 2HR fire rated enclosure.

COVER SHEET		BLRB
FRONTISPIECE		BLRB

DIVISION 00	PROCUREMENT REQUIREMENTS	
000001	INVITATION TO BID	CM/GC
000107	SEALS	BLRB
000100	INSTRUCTIONS TO BIDDERS	CM/GC
000110	TABLE OF CONTENTS	BLRB
000115	LIST OF DRAWING SHEETS	BLRB
? ? ? ?	PERFORMANCE AND PAYMENT BONDS	DAY
003100	EXISTING CONDITION INFORMATION	DAY
003101	EXISTING HAZARDOUS MATERIAL INFORMATION	BLRB
	- HAZMAT MATERIALS INVESTIGATION REPORT	PBS
003102	GEOTECHNICAL DATA	GEO
	- SUBSURFACE EXPLORATION, PRELIMINARY GEOTECHNICAL AND INFILTRATION FEASIBILITY REPORT	GEO
000400	BID FORMS	CM/GC
004323	ALTERNATES FORM	CM/GC
005000	CONTRACTING FORMS AND SUPPLEMENTS	CM/GC
005200	AGREEMENT FORM	CM/GC
007200	GENERAL CONDITIONS	DAY
? ? ? ?	SPECIAL CONDITIONS	DAY
? ? ? ?	SUPPLEMENTARY CONDITIONS	DAY

DIVISION 01	GENERAL REQUIREMENTS	
011000	SUMMARY	BLRB
011400	WORK RESTRICTION	DAY
012000	PRICE AND PAYMENT PROCEDURES	DAY
012100	ALLOWANCES	DAY
012200	UNIT PRICES	DAY
012300	ALTERNATES	BLRB
012500	PRODUCT SUBSTITUTION & OPTIONS	BLRB
012500A	PRODUCT SUBSTITUTION REQUEST FORM	BLRB
012600	CONTRACT MODIFICATION PROCEDURES	CM
	- REQUEST FOR INFORMATION	BLRB
	- ARCHITECT'S SUPPLEMENTAL INSTRUCTION	BLRB
	- CHANGE ORDER	BLRB
	- CHANGE ORDER PROPOSAL	BLRB
	- CONSTRUCTIVE CHANGE DIRECTIVE	BLRB
	- COST PROPOSAL SUMMARY FORM A - GENERAL CONTRACTOR	DAY
	- COST PROPOSAL SUMMARY FORM B - SUBCONTRACTOR/SUPPLIER	DAY

013000	ADMINISTRATIVE REQUIREMENTS	DAY
013119	PROJECT MEETINGS	BLRB
011323	PROJECT MANAGEMENT DATA BASE	DAY
013200	CONSTRUCTION PROGRESS DOCUMENTATION	BLRB
013223	SURVEY AND LAYOUT DATA	BLRB
013233	PHOTOGRAPHIC DOCUMENTATION	BLRB
013300	SUBMITTALS, SHOP DRAWINGS, PRODUCT DATA & SAMPLES	BLRB
013311	DELEGATED DESIGN AND SUBMITTAL REQUIREMENTS	BLRB
014000	QUALITY REQUIREMENTS	BLRB
014216	DEFINITIONS	DAY
014500	CONTRACTOR'S QUALITY CONTROL SYSTEM	DAY
	- CONTRACTOR'S DAILY REPORT	DAY
	- NOTICE OF NONCOMPLIANCE	BLRB
014550	AIR MONITORING REQUIREMENTS	PBS
014550	TESTING LABORATORY SERVICES	DAY
015000	TEMPORARY FACILITIES AND CONTROLS	DAY
015639	TEMPORARY TREE AND PLANT PROTECTION	CM
015800	PROJECT IDENTIFICATION	BLRB
015850	CONSTRUCTION SIGN	BLRB
016000	PRODUCT REQUIREMENTS	DAY
017300	EXECUTION AND CLOSEOUT REQUIREMENTS	DAY
017329	CUTTING AND PATCHING	BLRB
017419	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL	DAY
017700	CONTRACT CLOSEOUT	DAY
	- SUBSTANTIAL COMPLETION CHECKLIST	BLRB
	- FINAL COMPLETION CHECKLIST	BLRB
017800	CLOSEOUT SUBMITTAL	DAY
017823	OPERATION AND MAINTENANCE DATA	DAY
017836	WARRANTY PROCEDURES	DAY
	- CONTRACTOR'S WARRANTY	DAY
	- SUBCONTRACTOR'S WARRANTY	DAY
017839	PROJECT RECORD DOCUMENTS	DAY
017900	DEMONSTRATION AND TRAINING	DAY
019113	GENERAL COMMISSIONING REQUIREMENTS	PAE

DIVISION 02	EXISTING CONDITIONS	
022600	HAZARDOUS MATERIALS INVESTIGATION SUMMARY	PBS
022300	SUBSURFACE INVESTIGATIONS	PBS
024116	STRUCTURE DEMOLITION	BLRB
024119	SELECTIVE DEMOLITION	BLRB
028213	ASBESTOS ABATEMENT	PBS
028313	LEAD HAZARD CONTROL ACTIVITIES	PBS
028416	PCB RELATED ACTIVITIES	PBS
028417	FLUORESECENT LAMO REMOVAL AND DISPOSAL	PBS
DIVISION 03	CONCRETE	
033000	CAST-IN-PLACE CONCRETE	KPFF
033010	CONCRETE MOISTURE & ALKALINITY CONTROL	BLRB
033543	POLISHED CONCRETE FINISHING	BLRB
034500	PRECAST ARCHITECTURAL CONCRETE	BLRB
035300	CONCRETE TOPPING	BLRB
DIVISION 04	MASONRY	
042200	CONCRETE UNIT MASONRY	BLRB
042613	MASONRY VENEER	BLRB
047200	CAST STONE MASONRY	BLRB
DIVISION 05	METALS	
051200	STRUCTURAL STEEL FRAMING	KPFF
051213	ARCHITECTURAL EXPOSED STRUCTURAL STEEL (AESS)	BLRB
052100	STEEL JOIST FRAMING	KPFF
053100	STEEL DECKING	KPFF
054000	COLD-FORMED METAL FRAMING	KPFF
055000	METAL FABRICATIONS	BLRB
055100	METAL STAIRS	BLRB
055133	ALTERNATING TREAD STAIRS	BLRB
055213	PIPE AND TUBE RAILINGS	BLRB
057300	DECORATIVE METAL RAILING SYSTEMS	BLRB
DIVISION 06	WOOD, PLASTICS AND COMPOSITES	
061000	ROUGH CARPENTRY	BLRB
061600	SHEATHING	BLRB
061516	WOOD ROOF DECKING	KPFF
061800	GLUED-LAMINATED CONSTRUCTION	KPFF
062023	INTERIOR FINISH CARPENTRY	BLRB
064113	RECLAIMED WOOD PRODUCTS	BLRB
064200	WOOD PANELING	BLRB
066400	PLASTIC PANELING	BLRB

DIVISION 07	THERMAL AND MOISTURE PROTECTION	
070153	TEMPORARY ROOFING	BLRB
071113	BITUMINOUS DAMPPROOFING	BLRB
071326	SELF-ADHERING SHEET WATERPROOFING	BLRB
071900	WATER REPELLENTS	BLRB
072100	THERMAL INSULATION	BLRB
072114	SPRAY-FOAM INSULATION	BLRB
072600	VAPOR RETARDERS	BLRB
072717	VAPOR PERMEABLE SELF-ADHERED AIR BARRIER	BLRB
072737	VAPOR PERMEABLE FLUID-APPLIED MEMBRANE AIR BARRIER	BLRB
074113	METAL ROOF PANELS	BLRB
074213	FORMED METAL WALL PANELS	BLRB
074456	FIBER CEMENT PANELS	BLRB
075419	POLYVINYL–CHLORIDE (PVC) ROOFING	BLRB
075563	VEGETATED PROTECTED MEMBRANCE ROOFING	BLRB
076200	SHEET METAL FLASHING AND TRIM	BLRB
077200	ROOF ACCESSORIES	BLRB
077600	ROOF PAVERS	
078413	PENETRATION FIRESTOPPING	BLRB
079200	JOINT SEALANTS	BLRB
079219	ACOUSTICAL JOINT SEALANTS	BLRB
079500	EXPANSION CONTROL	BLRB
079950	COMMISIONING OF THERMAL MOISTURE PROTECTION SYSTEMS	BLRB

DIVISION 08	OPENINGS	
081113	HOLLOW METAL DOORS AND FRAMES	BLRB
081416	FLUSH WOOD DOORS	BLRB
083113	ACCESS DOORS AND FRAMES	BLRB
083313	OVERHEAD COILING DOORS	BLRB
083326	OVERHEAD COILING GRILLES	BLRB
083613	SECTIONAL DOORS	BLRB
084113	ALUMINUM-FRAMED ENTRANCES & STOREFRONTS	BLRB
085113	ALUMINUM WINDOWS	BLRB
086200	UNIT SKYLIGHTS	BLRB
086221	TUBULAR SKYLIGHTS	BLRB
087100	FINISH HARDWARE	BLRB
088000	GLAZING	BLRB
088300	MIRRORS	BLRB
089000	LOUVERS	BLRB
089950	COMMISSIONING OF DOORS AND WINDOWS	BLRB

DIVISION 09	FINISHES	
090561	FLOOR PREPARATION	BLRB
092116	GYPSUM BOARD SHAFT WALL ASSEMBLIES	BLRB
092216	NON-STRUCTURAL METAL FRAMING	KPFF
092900	GYPSUM BOARD	BLRB
093000	TILING	BLRB
095113	ACOUSTICAL PANEL CEILINGS	BLRB
095426	LINEAR WOOD CEILING	BLRB
096500	RESILIENT FLOORING	BLRB
096513	RESILIENT BASE AND ACCESSORIES	BLRB
096517	LINOLEUM FLOORING	BLRB
096566	RESILIENT SHEET FLOORING	BLRB
096816	CARPETING	BLRB
097200	WALLCOVERINGS	BLRB
097211	DIGITALLY PRINTED WALL COVERINGS	BLRB
097713	STRETCHED FABRIC WALL SYSTEMS	BLRB
098100	ACOUSTIC INSULATION	BLRB
098410	ACOUSTIC WALL AND CEILING PANELS	BLRB
099113	EXTERIOR PAINTING	BLRB
099123	INTERIOR PAINTING	BLRB
099300	STAINING AND TRANSPARENT FINISHING	BLRB
099623	GRAFFITI-RESISTANT COATINGS	BLRB
099646	INTUMESCENT PAINTING	BLRB

DIVISION 10	SPECIALTIES	
101100	VISUAL DISPLAY SURFACES	BLRB
101200	DISPLAY CASES	BLRB
101400	SIGNAGE	BLRB
101463	ELECTRONIC READERBOARD	BLRB
102113	TOILET COMPARTMENTS	BLRB
102123	CUBICLE CURTAINS AND TRACKS	BLRB
102211	INTERIOR CHAIN LINK FENCES AND GATES	BLRB
102226	FOLDING PANEL PARTITIONS	BLRB
102613	CORNER GUARDS	BLRB
102800	TOILET BATH AND LAUNDRY ACCESSORIES	BLRB
104100	EMERGENCY ACCESS & INFORMATION CABINETS	BLRB
104413	FIRE PROTECTION CABINETS	BLRB
104416	FIRE EXTINGUISHERS	BLRB
105113	METAL LOCKERS	BLRB
105613	METAL STORAGE SHELVING	BLRB

107113	EXTERIOR SUN CONTROL DEVICES	BLRB
107500	FLAGPOLES	BLRB
DIVISION 11	EQUIPMENT	
112429	FACILITY FALL PROTECTION	BLRB
113100	RESIDENTIAL APPLIANCES	BLRB
114000	FOOD SERVICE EQUIPMENT	HAL
115000	EDUCATIONAL AND SCIENTIFIC EQUIPMENT	BLRB
115200	AUDIO-VISUAL EQUIPMENT	BLRB
115213	PROJECTOR MOUNT	BLRB
115215	LARGE VENUE PROJECTION SCREENS	BLRB
116143	STAGE CURTAINS	BLRB
116623	GYMNASIUM EQUIPMENT	BLRB
116823	EXTERIOR COURT ATHLETIC EQUIPMENT	BLRB
117000	HEALTHCARE EQUIPMENT (AED CABINETS)	BLRB
111800	SECURITY EQUIPMENT (LIBRARY)	BLRB
DIVISION 12	FURNISHINGS	
122113	HORIZONTAL LOUVER BLINDS	BLRB
122413	ROLLER WINDOW SHADES	BLRB
123200	MANUFACTURED WOOD CASEWORK	BLRB
123500	MUSIC STORAGE CASEWORK	BLRB
124800	ENTRANCE FLOORING	BLRB
129300	SITE FURNISHINGS	CM
DIVISION 13	SPECIAL CONSTRUCTION **(NOT USED)**	
DIVISION 14	CONVEYING SYSTEMS	
142100	MACHINE ROOM-LESS ELECTRIC ELEVATOR	BLRB
DIVISION 21	FIRE SUPPRESSION	
210500	COMMON WORK RESULTS FOR FIRE SUPPRESSION	PAE
211000	WATER-BASED FIRE SUPPRESSION SYSTEMS	PAE
DIVISION 22	PLUMBING	
220500	COMMON WORK RESULTS FOR PLUMBING	PAE
220518	PLUMBING EXPANSION COMPENSATION	PAE
220519	METERS AND GAUGES FOR PLUMBING	PAE
220523	GENERAL DUTY VALVES AND SPECIALTIES FOR PLUMBING	PAE
220529	HANGERS, SUPPORTS AND ANCHORS FOR PLUMBING	PAE
220548	VIBRATION AND SEISMIC CONTROL FOR PLUMBING PIPING AND EQUIPMENT	PAE
220553	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT	PAE

220590	PRESSURE TESTING FOR PLUMBING SYSTEMS	PAE

220593	TESTING, ADJUSTING, AND BALANCING FOR PLUMBING	PAE
220700	INSULATION FOR PLUMBING	PAE
220800	COMMISSIONING FOR PLUMBING	PAE
221113	PIPE AND PIPE FITTINGS FOR PLUMBING	PAE
222123	PUMPS FOR PLUMBING	PAE
222500	PLUMBING WATER TREATMENT	PAE
223000	PLUMBING EQUIPMENT	PAE
224000	PLUMBING FIXTURES	PAE

DIVISION 23 HEATING, VENTILATING, AND AIR CONDITIONING

230500	COMMON WORK RESULTS FOR HVAC	PAE
230514	VARIABLE FREQUENCY DRIVES FOR HVAC EQUIPMENT	PAE
230518	HVAC EXPANSION COMPENSATION	PAE
230519	METERS AND GAUGES FOR HVAC	PAE
230523	GENERAL DUTY VALVES AND SPECIALTIES FOR HVAC	PAE
230529	HANGERS AND SUPPORTS FOR HVAC	PAE
230548	VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT	PAE
230553	IDENTIFICATION FOR HVAC PIPING & EQUIPMENT	PAE
230590	PRESSURE TESTING FOR HVAC SYSTEMS	PAE
230593	TESTING, ADJUSTING, AND BALANCING FOR HVAC	PAE
230700	INSULATION FOR HVAC	PAE
230800	COMMISSIONING FOR HVAC	PAE
230900	INSTRUMENTATION AND CONTROLS FOR HVAC	PAE
230993	SEQUENCE OF OPERATIONS FOR HVAC CONTROLS	PAE
232113	PIPE AND PIPE FITTINGS FOR HVAC	PAE
232123	PUMPS FOR HVAC SYSTEMS	PAE
233301	HVAC DUCTS AND CASING-LOW PRESSURE	PAE
233302	HVAC DUCTS AND CASING-MEDIUM PRESSURE	PAE
233300	AIR DUCT ACCESSORIES	PAE
233400	HVAC FANS	PAE
233600	AIR TERMINAL UNITS	PAE
233700	AIR OUTLETS AND INLETS	PAE
234000	HVAC AIR CLEANING DEVICES	PAE
235100	BREECHINGS, CHIMNEYS, AND STACKS	PAE
235200	HEATING BOILERS	PAE
235500	FUEL-FIRED HEATERS	PAE
235700	HEAT EXCHANGERS	PAE
237000	CENTRAL HVAC EQUIPMENT	PAE
237200	AIR TO AIR ENERGY RECOVERY UNITS	PAE
238100	DECENTRALIZED UNITARY HVAC	PAE

238200	CONVECTION HEATING AND COOLING UNITS	PAE
238316	RADIANT-HEATING HYDRONIC PIPING	PAE
238410	ELECTRIC HEATING EQUIPMENT	PAE

DIVISION 26 ELECTRICAL

260050	COMMON WORK RESULTS FOR ELECTRICAL	PAE
260519	LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES	PAE
260526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	PAE
260529	HANGERS AND SUPPORTS FOR ELECTRICAL	PAE
260533	RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS	PAE
260536	CABLE TRAYS FOR ELECTRICAL SYSTEMS	PAE
260543	UNDERGROUND DUCTS AND RACEWAYS	PAE
260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS	PAE
260573	OVERCURRENT PROTECTIVE DEVICE COORDINATION STUDY	PAE
260800	COMMISSIONING OF ELECTRICAL SYSTEM	PAE
260923	LIGHTING CONTROL DEVICES	PAE
260943	NETWORK LIGHTING CONTROL	PAE
262200	LOW VOLTAGE TRANSFORMERS	PAE
262413	SWITCHBOARDS	PAE
262416	PANELBOARDS	PAE
262726	WIRING DEVICES	PAE
262900	MOTOR CONTROLLERS	PAE
263213	ENGINE GENERATORS	PAE
263353	STATIC UNINTERRUPTABLE POWER SUPPLY SYSTEM	PAE
263623	AUTOMATIC TRANSFER SWITCHES	PAE
264313	SURGE PROTECTION DEVICES	PAE
265000	LIGHTING	PAE

DIVISION 27 COMMUNICATIONS

270500	COMMON WORK RESULTS FOR COMMUNICATIONS	PAE
270526	GROUNDING AND BONDING FOR COMMUNICATION SYSTEMS	PAE
270528	PATHWAYS FOR COMMUNICATIONS SYSTEMS	PAE
270800	COMMISSIONING OF COMMUNICATIONS	PAE
271100	COMMUNICATIONS EQUIPMENT ROOM FITTINGS	PAE
271119	COMMUNICATIONS TERMINATIONS BLOCKS AND PATCH PANELS	PAE
271300	COMMUNICATIONS BACKBONE CABLING	PAE
271500	COMMUNICATIONS HORIZONTAL CABLING	PAE
274116	INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT	PAE
275116	PUBLIC ADDRESS SYSTEMS	PAE
275319	INTERNAL CELLULAR, PAGING, AND ANTENNA SYSTEMS	PAE

DIVISION 28 ELECTRONIC SAFETY AND SECURITY

280500	COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY	PAE
280513	CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY	PAE
281300	ACCESS CONTROL	PAE
282300	VIDEO SURVEILLANCE	PAE
283100	FIRE DETECTION AND ALARM	PAE

DIVISION 31 EARTHWORK

311000	SITE CLEARING AND SITE DEMOLITION	HUM
312000	EARTH MOVING	HUM
312113	RADON MITIGATION	BLRB
312333	TRENCHING AND BACKFILL	HUM
312513	EROSION CONTROL	HUM

DIVISION 32 EXTERIOR IMPROVEMENTS

321216	ASPHALT PAVING	HUM
321243	FLEXIBLE POROUS PAVEMENT	HUM
3212??	PAVEMENT MARKINGS	HUM
321313	CONCRETE PAVING	HUM
321816	RECREATIONAL EQUIPMENT	CM
321840	PLAYGROUND SURFACING	CM
323113	CHAIN LINK FENCES AND GATES	CM
323119	DECORATIVE METAL FENCES AND GATES	BLRB
328000	IRRIGATION	CM
329000	PLANTING	CM

DIVISION 33 UTILITIES

331100	FACILITY WATER DISTRIBUTION PIPING	HUM
333000	FACILITY SANITARY SEWERS	HUM
334100	STORM UTILITY DRAINAGE PIPING	HUM
334600	SUBDRAINAGE	HUM

Wilkes Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Landscape Architecture – Outline Specifications

DIVISION 01 – GENERAL REQUIREMENTS

Section 01 56 39 – Temporary Tree and Plant Protection

◊ Defines fencing and practices to protect zones around trees and plant materials to remain.

DIVISION 12 – SITE FURNISHINGS

Section 12 93 00 – Site Furnishings

◊ Applies to benches, planters, trash & recycling receptacles, bicycle racks (steel), bollards (pipe, concrete at drop off, or areas to be determined), and other related equipment the Owner requires to be on the school grounds.

DIVISION 32 – EXTERIOR IMPROVEMENTS

Section 32 18 16 – Recreational Equipment

◊ Describes play equipment products the Owner requests for playgrounds.

Section 32 18 40 – Playground Surfacing

◊ Playground soft surface play areas to be rubber tiles over a concrete sub-base.

Section 32 31 13 – Chain Link Fences and Gates

◊ Describes colors, finishes, and heights of chain link fencing and gates on site.

Section 32 80 00 – Irrigation

◊ Describes valves, heads, and all other irrigation components needed to create a fully automatic water efficient system.

Section 32 90 00 – Planting

◊ All disturbed areas shall be planted or seeded.

◊ Planted areas shall be kept properly watered at all times until final acceptance.

◊ Possible species include non-toxic plants, natives & drought tolerant plants that do not include berries or thorns.

◊ Provide a (2) year Maintenance Agreement for landscape work starting at final completion. This is separate from the warranty period work.

◊ Roof garden will consist of a 4” tray system, and fixed spray risers for irrigation.

SCHEMATIC DESIGN

Landscape Architecture – Outline Specifications

- Topsoil for planting beds shall be 18 inch depth
- Topsoil for lawns shall be 8 inch depth.

Wilkes Elementary School
Reynolds School District No. 7

SCHEMATIC DESIGN

Architectural – Outline Specifications

DIVISION 2 – EXISTING CONDITIONS

Section 02 26 00 – Hazardous Materials Investigation Summary

◊ Inspection report completed by PBS Environmental & Engineering, a consultant of Reynolds School District, of the existing building to determine the presence of asbestos-containing materials (ACM). The presence of other hazardous materials is suspected and awaiting confirmation for such items as lead-containing paints (LCP), PCB-containing light ballasts and transformers, and mercury-containing fluorescent lamps.

Section 02 30 00 - Subsurface Investigation

◊ GeoDesign, Inc. performed a geotechnical engineering study on the project site to determine the subsurface conditions which may affect the construction of the project. Recommendations include:
- Conventional spread and continuous footings set 18" minimum below final exterior grade
- Slab on grade floors set on granular fill
- Footing drains at the building perimeter
- Underground utility support and backfill
- Pavement profiles

Section 02 41 16 - Structure Demolition

◊ Demolish and remove existing permanent buildings.
◊ Remove below grade construction in specified areas.
◊ Disconnect, cap or seal and remove site utilities, as required.
◊ Salvage items for reuse by Owner or for recycling.

Section 02 41 19 - Selective Structure Demolition

◊ Demolition and removal of selected portions of modular building's foundation.
◊ Remove below grade construction in specified areas.
◊ Disconnect, cap or seal and remove site utilities, as required.

Section 02 82 13 - Asbestos Abatement

◊ Section includes hazardous materials survey report: abate asbestos according to the report.
◊ Remove and dispose of asbestos containing materials (ACM's) from the structures to be demolished.

Section 02 83 13 - Lead Hazard Control Activities

◊ Section includes investigation report of lead hazard control activities.
◊ Handle building components with lead-containing paint from the demolished structures.

Section 02 84 16 – PCB-Related Activities

◊ Section includes investigation report of removal and disposal work related to polychlorinated biphenyl (PCB)-containing light ballasts and electrical transformers.
◊ Remove and dispose of PCB containing equipment from the structures to be demolished.

Section 02 84 17 – Fluorescent Lamp Removal and Disposal

- Section includes investigation report of removal and disposal work related to the removal and proper recycling/disposal of mercury-containing fluorescent lamps and mercury-containing thermostat bulbs.
- Remove and recycle mercury-containing lamps and thermostat bulbs from the structures to be demolished.

DIVISION 03 - CONCRETE

Section 03 30 00 – Cast-in-Place Concrete

Quality Assurance

- Standards
  - ACI 301 "Specifications for Structural Concrete"
  - ACI 318 "Building Code Requirements for Structural Concrete"
- Testing: Independent testing laboratory, paid for by the owner.
  - Provide minimum of 1 set, (3) cylinder test for each 100 cubic yards of concrete or any lesser proportion poured in any single day or isolated location.
- Material Standards
  - Steel Reinforcement: ASTM A 615/A 615M, Grade 60
  - Plain-Steel Welded Wire Reinforcement: ASTM A 185/A 185M
  - Portland Cement: ASTM C 150 Type I/II
  - Normal-Weight Aggregates: ASTM C 33, graded
  - Water: ASTM C 94/C 94M
- Mixtures
  - Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.

Conventional Foundation

- Continuous footing and foundations under load bearing walls.
- Spread footings under columns and other concentrated loads.

Typical Floor Slabs

- Reinforced with welded wire fabric or fibrous reinforcing. Finished with hard trowel.
- Typical Floor slab: minimum 4" thick, thickened as required at selected interior walls, floor inserts and depressions.
- Slope floor to floor drains in areas subject to frequent wetting or maintenance, where practical.
- Recessed slabs at entrance mats and mud-set ceramic tile floors.
- Where exposed, provide with clear, penetrating, siliconate type sealer/hardener (i.e., mechanical, electrical, custodial rooms).
- Seal joints and penetrations on main floor with sealant as part of radon mitigation measures

Second Floor System

- 3" concrete topping over 3" metal decking.

Mechanical Mezzanine Floor System

- 3-1/2" concrete topping over 2" metal decking where indicated in new construction.

Under Slab Moisture Vapor Control

SCHEMATIC DESIGN

Architectural – Outline Specifications

◊ Provide moisture barrier of heavy-duty minimum 15 mil polyolefin film geo-membrane with seaming tape.

Concrete Steps

◊ Exterior steps shall be poured-in-place concrete, sloped for drainage.

Concrete Walls

◊ Provide concrete walls with chamfered edges and steel reinforcing.
◊ Retaining walls

Concrete Bench Tops

◊ Provide concrete slab with steel reinforcing.

Waterstops

◊ Provide continuous resinous product designed to prevent passage of water at subgrade joints of concrete footing, foundation walls, and floors.

Section 03 35 17 – Honed Concrete Finishes

◊ Monitor and adjust slab moisture level.
◊ Moisture protection and alkalinity measures to prepare concrete substrates for application of finish flooring under the following finishes:

Section 03 30 10 – Concrete Moisture & Alkalinity Control

◊ Monitor moisture and alkalinity content of concrete substrate to receive moisture-sensitive finish, flooring, or adhesives
◊ Provide topical treatment as needed to provide suitable substrate

Section 03 35 43 – Polished Concrete Finishing

◊ Grind existing concrete floor to a Class B fine aggregate exposure with a Level Two medium gloss finish with a three-step grinding process.
  - Level Two Finish: high gloss finish process by an initial grind with 150 grit metal bonded diamonds, followed by 50 grit resin diamonds, 120 grit resin diamonds, 220 grit resin diamonds, harden/seal agent, and an 400 grit resin diamond final polish.
  - Class B – Fine Aggregate (Salt and Pepper) Finish: 1/16 inch of concrete surface removed by grinding and polishing resulting in majority of exposure displaying fine aggregate with no, or small amount of, medium aggregate at random locations
◊ Standards
  - Concrete Polishing Association of America (CPAA), www.concretepolishingassociation.com
  - ACI 302 1R-89, Guide for Concrete Floor and Slab Construction
◊ Harden/Seal Agent: Retro Plate 99 by Advanced Floor Products, Inc.
◊ Top Seal Agent: heavy-duty concrete stain repellent, RetroPel by Advanced Floor Products

Section 03 53 00 – Concrete Topping

◊ Repair Mortar: Ardex ERM Exterior Ramp Mortar, trowel-grade horizontal concrete repair mortar, Portland cement-based, polymer modified structural repair mortar with integral corrosion inhibitor. Prepare existing concrete floor slab; repair existing cracks and gaps.
◊ Concrete Floor Topping: Ardex LT-65 Lite-Tech lightweight flooring Portland Cement-based topping/fill. Fill recessed floor with lightweight fill in place of existing raised floor system to within ¼" of finished floor.

- Primer: Ardex P-51 Primer, prime prepared concrete surface to receive cement-based topping. Prime topping surface to receive self-leveling underlayment.
- Self-Leveling Concrete Topping: Ardex K-500, 55 lb. bags mixed with water and 20 quarts of expanded polystyrene beads (EPS) per bag.
- Expanded Polystyrene Beads (EPS): 1.0 lb./cu. ft.
- Self-Leveling Underlayment: Ardex K-15 Self-Leveling Underlayment Concrete, Portland cement based.
- Self-Leveling Concrete Topping: Ardex SD-T self-drying, self-leveling, no troweling, Portland cement-based topping for fast track resurfacing, smoothing or leveling of indoor concrete and certain nonporous surfaces. Use as topping for exposed concrete surfaces.

DIVISION 04 - MASONRY

Section 04 22 00 – Concrete Unit Masonry

◊ Concrete masonry units (CMU): medium weight units, running bond pattern.
◊ Ground face, decorative concrete masonry units: at Commons and Lobby consisting of ground face finishes with integral color as scheduled.
◊ Colors selected from manufacturer's full range of colors (standard and premium).
◊ Material Standards
- Concrete Masonry Units:
  - Hollow Load-Bearing Concrete Masonry Units: ASTM C 90, 1900 psi compressive strength, medium weight.
  - Size: Face dimension of 7-5/8 inches high by 15-5/8 inches long by width required for application.
  - Concrete Building Brick: ASTM C 55.
- Mortar and Grout:
  - Mortar Mix: ASTM C 270, Type S, for reinforced masonry, masonry below grade and masonry in contact with earth and ASTM C 270, Type N, for above-grade loadbearing and nonloadbearing walls and parapet walls and for interior loadbearing and nonloadbearing partitions.
  - Mortar Materials: Portland cement, ASTM C 150, Type I or II.
  - Mortar Aggregate: Natural color, ASTM C 144.
  - Grout Aggregate: ASTM C 404.
  - Hydrated Lime: ASTM C 207, Type S.
  - Color: Natural color.
- Reinforcing Steel:
  - Reinforcing Bars: ASTM A 615, Grade 60.
  - Deformed Reinforcing Wire: ASTM A 496.
- Ties and Anchors:
  - Adjustable Masonry Veneer Anchors: Screw-attached two-piece galvanized triangular or rectangular wire tie and metal anchor.
  - Screws for Steel Studs: ASTM C 954 stainless steel.

◊ Cavity wall insulation: see Section 07 21 00
◊ Masonry Sills: see Section 04 72 00

◊ Accessories:
- Cellular plastic weep/vents at base and top of wall to facilitate vapor migration away from building.
- Mortar net at base of wall (full height where wall thickness is required to match existing construction).
- Flashing: flexible, rubberized-asphalt with stainless steel mesh
- Nonmetallic expansion joint strips.
- Preformed control joint gaskets.
- Bond breaker strips.

◊ Precast concrete units and inserts: see Section 03 45 00

Section 04 26 13 – Masonry Veneer
- Ground Face Block Blend: ASTM C90, Grade SW, where indicated by ASTM C 216 grade requirements for applicable weathering index and exposure, Type FBS.
  - Unit Compressive Strength: 3,000 psi
  - Initial Rate of Absorption: Less than 30 g/30 sq. per ASTM C 67.
  - Surface Coating: withstand 50 cycles of freezing and thawing per ASTM C 67
  - Integral Waterproofing Admixture

Section 04 72 00 - Cast Stone Masonry
◊ Cast stone units complying with ASTM C 1364 using the vibrant dry tamp method.
- Window sills

DIVISION 05 - METALS

Section 05 12 00 - Structural Steel Framing
◊ Comply with AISC specifications for the design, fabrication and erection of structural steel for buildings, Type FR, fully restrained with Type 1, rigid frame connections.
- Wide Flanges: ASTM A992.
- Other Structural Steel Shapes, Plates, and Bars: ASTM A 36.
- Cold-Formed Steel Tubing: ASTM A 500, Grade B.
- Steel Pipe: ASTM A 53, Type E or S, Grade B; or ASTM A 501.
- Headed Stud-Type Shear Connectors: ASTM A 108, Grade 1015 or 1020.
- Anchor Bolts: ASTM F-1554, Grade 36 Class 2A.
- Unfinished Threaded Fasteners: ASTM A 307, Grade A.
- High-Strength Threaded Fasteners: ASTM A 325 or ASTM A 490, as applicable.

◊ Auxiliary Materials:
- Direct Tension Indicators: ASTM A 959.
- Electrodes for Welding: AWS Code.
- Structural Steel Primer Paint: SSPC - Paint 2, red lead-iron oxide, oil alkyd.
- Cement Grout: Portland cement, sand.
- Metallic Shrinkage-Resistant Grout: Premixed ferrous aggregate grouting compound.
- Nonmetallic Shrinkage-Resistant Grout: Premixed nonmetallic grouting compound, CE CRD-C621.

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- ◊ Subgrade protection: Bitumastic treatment to any portion of steel columns, base plates and anchor bolts.
- ◊ Weather exposed steel fabrications: galvanized G90 coating
- ◊ Testing: Independent testing laboratory.
- ◊ Erection Tolerances: AISC standards.

Section 05 21 13 – Architectural Exposed Structural Steel (AESS)

- ◊ Comply with minimum requirements for Structural Steel Framing
- ◊ Provide architectural grade fabrication, jointing, and finishing for all exposed steel.

Section 05 21 00 - Steel Joist Framing

- ◊ Open web steel joists including K-series and KCS-type steel joists, long-span steel joists and joist girders. Conform to SJI specifications.

Section 05 31 00 - Steel Decking

- ◊ Galvanized decking typical for roof and elevated floor locations with greater than 90% recycled content.
- ◊ Roof Deck: 1-1/2 inch type B roof deck.
- ◊ Canopy Deck: 3-inch type N cellular roof deck
- ◊ Floor Deck: 2-inch deep type W2 composite decking.
- ◊ Standard acoustical deck with sound-absorbing insulation at Learning Commons, Commons, Gym, and Lobby
- ◊ Vulcanized, closed-cell synthetic rubber closure strips at all junctures with walls and where required for enhanced acoustical performance or smokeproof enclosure.

Section 05 40 00 - Cold Formed Metal Framing

- ◊ C-shaped, load bearing channel studs with steel runners blocking, lintels, clip angles, shoes, reinforcement fasteners and accessories.
  - Standards: SSMA, Steel Stud Manufacturer's Association ICBO ER 4943
  - Erection Tolerances: SSMA standards
  - Testing: Independent testing laboratory
  - Materials: Stud and Track Sections: ASTM A-653, Quality SQ, Grade 50 Class 1, Fy=50ksi

Section 05 50 00 - Metal Fabrications

- ◊ Miscellaneous Framing and Supports
  - Fabricate from steel shapes of welded construction
  - Non-Shrink Grout: Non-metallic non-shrink grout used for filling annular space adjacent to structural steel members, mounting plates, floor-mounted devices, and similar voids
- ◊ Interior Ladders
  - Ships ladder for attic access, preassembled, aluminum with 63 degree pitch.
- ◊ Exterior Ladders
  - Extruded aluminum tubes or channels with ribbed tread surfaces.
- ◊ Cast Stair Nosings
  - Interior concrete stairs provided with extruded aluminum tread nosings having an integral abrasive finish.
- ◊ Insect Screen

- Stainless steel wire soffit vent screen, plain weave, 8 x 8 mesh count, 0..025 wire diameter, 0.100 aperture, 64% open (free) area, T-304 stainless steel per ANSI/ASTM A555-79, by STG Wire, www.wovenwire.com.

◊ Anti-Skate Fabrications: see Section 129300

Section 05 52 13 – Metal Stairs

◊ Steel framed, infilled treads
◊ Infill treads with concrete complying with Division 3 requirements.

Section 05 51 33 – Alternating Tread Stairs

◊ Steel or aluminum construction , prefabricated to fit job conditions
◊ Locate to serve mechanical rooms and other service spaces

Section 05 52 13 – Pipe and Tube Railings

◊ Steel Pipe Railings and Handrails
  - Hand and guardrails to be 1-1/2" outside diameter, stainless steel piping. All exterior rails will be galvanized.

Section 05 73 00 – Decorative Metal Railing Systems

◊ Post-supported railings with wire mesh infill.
◊ Stainless steel ornamental supports.

DIVISION 06 – WOOD AND PLASTICS

Section 06 10 00 – Rough Carpentry

◊ Rough framing, plywood, plates, blocking and backing to conform to West Coast Lumber Inspection Bureau standards.
◊ Pressure treatment: where wood is in contact with concrete or masonry surfaces.
◊ Fire retardant treatment: for use in non-combustible construction.
◊ Cementitious Tile Backer Board: 1/2-inch thick cement board for ceramic tile finishes.

Section 06 16 00 – Sheathing

◊ Water resistant 5/8" gypsum board panels for application to exterior metal stud framing as a water-resistant membrane. ASTM C 1396 compliant.

Section 06 15 16 – Wood Roof Decking

◊ Minimum 1-1/2" thick, tongue and groove roof decking
◊ Finish installation with clear stain and coatings for weather exposure

Section 06 18 00 Glued-Laminated Construction

◊ Pre-engineered, glue-laminated wood framing members

◊ Architectural grade at exposed locations

Section 06 20 23 - Interior Finish Carpentry
◊ Architectural woodwork: conform to West Coast Lumber Inspection Bureau standards and architectural woodwork quality standards published by the American Woodwork Institute (AWI).
◊ Interior standing and running trim: Clear maple, select grade, complying with AWI Section 300.

Section 06 41 13 – Reclaimed Wood Products
◊ Salvaged wood products from selective building demolition, prior and during demolition.
◊ Storage and protection of reclaimed materials, maintain wood moisture content for interior materials at 8 to 13 percent.
◊ Shop Preparation as required to prepare materials for new use.
◊ Wood materials to be salvaged for reuse include, door trim, window trim, wall trim, casework, wood flooring and structural timbers.

Section 06 42 00 – Wood Paneling
◊ MDF paneling to be painted.
◊ MDO plywood: with paint finish at custodial and select storage rooms

Section 06 64 00 - Plastic Paneling
◊ Fiberglass Reinforced Plastic (FRP) panels: Kemlite, size, 4' x 10', thickness: 0.09 inches, Color: selected from manufacturer's standard colors.

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 07 01 53 – Temporary Roofing
◊ Self-adhered membrane included as vapor barrier material in PVC roofing, as recommended by roofing system manufacturer as capable of performing as temporary roof.

Section 07 11 13 - Bituminous Dampproofing
◊ A cold-applied asphalt emulsion dampproofing will be provided on the exterior surface of all exterior concrete foundations and footings not exposed to view (no asbestos laden materials will be allowed).

Section 07 13 26 - Self-Adhering Sheet Waterproofing
◊ A self-adhering modified bituminous sheet waterproofing system will be provided on the exterior surface of subsurface concrete foundations and footings not exposed to view.
◊ Drainage Matting: Preformed 10mm thick geo-composite drainage sheet system, comprising a hollow studded polystyrene core, covered on one side with a non-woven, needle punched polypropylene filter fabric and on the other side with a smooth polymeric sheet.

Section 07 19 00 - Water Repellents
◊ Penetrating water-repellent and anti-graffiti treatments for vertical and horizontal surfaces.

◊ Clear silane and siloxane blend with 600 g/L or less of VOCs, Sure Klean® Weather Seal Blok-Guard® & Graffiti Control by PROSOCO, Inc. applied to cast concrete, precast concrete, cast stone, CMU, clay brick and natural stone.

Section 07 21 00 - Thermal Insulation

◊ Perimeter insulation: 2" thick extruded polystyrene provided typical from top of spread footing to top of slab and extending 2' under slab on grade, typical at all exterior walls.
◊ Exterior wall insulation: 3" thick continuous extruded polystyrene.
◊ Sound attenuation insulation: minimum 3-1/2" blankets at interior framed walls.
◊ Semi-rigid acoustical insulation: glass fibers faced with black mat, 3" thick at back wall behind telescoping bleachers and 2" at perforated panels.
◊ Concealed roof deck vapor barrier: 2 layer polyethylene film laminated to an inner reinforcing layer of nylon or polyester.
◊ Low-slope and vegetated-protected roof: As indicated in each section.
◊ Vapor Retarder:
- CertainTeed, MemBrain permeable vapor retarder for use on the inside face of batt insulated walls.
- Reinforced-Polyethylene Vapor Retarder with 2 outer layers of polyethylene film laminated to an inner reinforcing layer consisting of either nylon cord or polyester scrim at roofs under SBS modified bitumen roof membrane.

Section 07 21 14 – Spray-Foam Insulation

◊ Closed Cell Spray polyurethane foam insulation.
- ASTM C 1029, Type II, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84
- Minimum density of 2.0 lb/cu. ft. spray foam, Closed Cell foam
- Thermal resistance: ASTM C518, 75 deg. mean temperature R-value per inch: minimum R-6.4 (Aged 90 days).
- Dow Styrofoam Brand Insulation Spray Polyurethane foam Insulation- CM 2045, BASF Corporation- "Walltite", or Demilec "Heatlok Soy 200".

Section 07 26 00 - Vapor Retarders

◊ Wall Vapor Retarder:
- CertainTeed, MemBrain permeable vapor retarder for use on the inside face of batt insulated walls.
- Reinforced-Polyethylene Vapor Retarder with 2 outer layers of polyethylene film laminated to an inner reinforcing layer consisting of either nylon cord or polyester scrim at roofs under SBS modified bitumen roof membrane.

Section 07 27 13 – Vapor Permeable Self-Adhered Air Barrier

◊ Sheet Air Barrier: Non-permeable, bituminous, self-adhering sheet membrane installed over exterior wall sheathing where rigid insulation is installed outside of exterior wall sheathing on framed walls.
◊ Type A (adhered) as manufactured by Carlisle (CCW-705), WR Grace (Perm-a-Barrier), and Henry Co. (Blueskin SA).

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Section 07 27 26 – Vapor Permeable Fluid Applied Membrane Air Barriers

- ◊ Fluid-applied (spray-on) membrane air barrier, vapor retarding: synthetic polymer membrane (non-permeable) continuous air barrier and liquid water drainage plane flashed to discharge to exterior incidental condensation or water penetration. Used where rigid insulation is installed on structural masonry.
- ◊ Type S (spray-on) as manufactured by WR Grace (Perm-a-Barrier Liquid), Henry Co. (Air-Bloc), and Rubber Polymer Corp. (Rub-R-Wall Airtight).

Section 07 41 00 – Metal Roof Panels

- ◊ Metal panels: for canopies.
- ◊ 20 gauge sheet steel, lap-seam and concealed-fasteners
- ◊ Restricted flatness steel sheet coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
- ◊ Exterior Finish: Kynar 500, 3-coat fluoropolymer

Section 07 42 13 - Metal Wall Panels

- ◊ Metal wall panels: for walls and soffits.
- ◊ 20 gauge sheet steel, lap-seam and concealed-fasteners
  - Wall: Flex Series by AEP Span, 1.2FX10-12, 2" profile, 12" panel width.
  - Soffit: Prestige Series by AEP Span, 12" panel width.
- ◊ Restricted flatness steel sheet coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
- ◊ Exterior Finish: Kynar 500, 3-coat fluoropolymer

Section 07 42 13 – Fiber Cement Panels

- ◊ Soffit panels: Vented, smooth-faced cement fiber reinforced panels designed for exterior use.
- ◊ Minimum thickness: .25"
- ◊ Span rating: 24" o.c.

Section 07 54 19 – Polyvinyl-Chloride Styrene (PVC) Roofing

- ◊ Roofing Membrane Assembly: A fully-adhered roof membrane assembly consisting of one (1) ply polyvinyl-chloride sheet base. Roof ply shall be minimum 60-mil thickness with a white surface.
  - Walkways: factory-formed product matching roof membrane with slip-resistant surface.
  - Cover board: ¼" glass-mat, water resistant substrate acceptable to roof manufacturer.
  - Roof Insulation Board: 6" closed-cell polyisocayanurate set in minimum of two staggered layers, minimum "R" value 38.0, mechanically fastened and adhered as recommended by roof manufacturer.
  - Tapered Roof Insulation Board: Factory tapered boards with minimum slope of ¼" per foot.
  - Substrate Board: ¼" glass-mat, water resistant substrate acceptable to roof manufacturer.
  - Vapor Retarder: 32-mil self-adhesive, SBS modified bitumen construction. overlapped and taped seams, or as recommended by roofing manufacturer.

Section 07 55 63 – Vegetated Protected Membrane Roofing

- ◊ Roofing Membrane Assembly: A fully-integrated roof assembly consisting of single-ply roof system as the following components:

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- Pavers: Per Section 077600, Roof Pavers
- Vegetation: Extensive or intensive per landscape requirements.
- Growth Medium: capable of supporting specified landscape material.
- Drainage Composite: Profiled assembly consisting of raised members providing support for top membrane layer
- Roof Membrane: Sarnafil G476 SA, self-adhered membrane manufactured for use in green roof system
- Separation Layer: As recommended by this roof system manufacturer.
- Cover board: ¼" glass-mat, water resistant gypsum substrate acceptable to roof manufacturer.
- Roof Insulation Board: 6" extruded polystyrene set in minimum of two staggered layers, minimum "R" value 38.0, mechanically fastened and adhered as recommended by roof manufacturer.
- Tapered Roof Insulation Board: Factory-tapered boards with minimum slope of ¼" per foot to facilitate drainage (e.g., crickets)
- Substrate Board: ¼" glass-mat, water resistant gypsum substrate acceptable to roof manufacturer.
- Vapor Retarder: 32-mil self-adhesive, SBS modified bitumen construction. overlapped and taped seams, or as recommended by roofing manufacturer.

<u>Section 07 62 00 - Sheet Metal Flashing and Trim</u>

◊ General: field-formed and fabricated metal assemblies and exposed anchor systems with fluoropolymer finish
◊ Hanging gutters: 22 gauge galvanized steel with .188-inch brackets; installation similar to SMACNA Plate #20.
◊ Downspouts: Mill finish aluminum tube and bracket downspout assembly at view locations, ABS schedule 40, 4" diameter plastic pipe, painted finish at other exterior locations; cast iron at interior downspouts.
◊ Parapet Scuppers: fabricated from aluminum-zinc-alloy-coated steel, .0253-inch thick, equipped with gravel guards.
◊ Conductor Heads: fabricated from aluminum-zinc-alloy-coated steel, .0253-inch thick, equipped built-in overflows
◊ Splash Pan: fabricated from .040-inch thick aluminum.
◊ Roof Fabrications: aluminum-zinc-alloy-coated steel, varying thicknesses for roof-wall transitions, base flashing, counter flashing, roof penetration flashing, and roof drain flashing.
◊ Through wall sheet flashings: .0312-inch thick stainless steel continuous flashings for use under copings and shelf angles.
◊ Opening flashings: 0.0253-inch zinc-aluminum alloy-coated steel for use around wall openings, with end dams where discontinuous.
◊ Roof Edge Flashing: two-piece, roof edge fascia of snap-on metal; fascia cover over continuous anchor bar with integral drip edge cleat to engage fascia cover.
◊ Counterflashings and reglets: Manufactured units formed to provide secure interlocking of separate pieces, factory-mitered and welded corners and junctions

<u>Section 07 72 00 - Roof Accessories</u>

◊ General: Corrosion-resistant metals of steel or aluminum

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- ◊ Roof Curbs and equipment supports: insulated, and internally reinforced as required for load conditions, welded corner units, with integral formed mounting flange at perimeter bottom, 12" high above roof surface
- ◊ Roof Hatch: one-hand operation, galvanized steel construction, 14 gauge, insulated curb and cover, 12" tall curb, 36" x 30", with telescoping safety post, by Bilco, or equal.
- ◊ Preformed flashings: for vent stack or roof-anchored penetrations, metal flashing sleeve with integral deck flashing, extended to 12" above roof surface

Section 07 76 00 – Roof Pavers

- ◊ General: Precast concrete pavers with the following minimum characteristics:
  - ◊ Size: 24" x 24", nominal
  - ◊ Compressive strength: 8,500 psi
  - ◊ Flexural Strength: 1,100 psi
  - ◊ Water Absorption: less that 5%.
  - ◊ Density: 155 lbs./cubit foot
- ◊ Pedestals: 3/8" high EPDM pedestal system, as recommended by paver manufacturer.

Section 07 84 13 - Penetration Firestopping

- ◊ Firestop systems for penetrations through fire-resistance-rated constructions, including both empty openings and openings containing penetrating items.
- ◊ Smoke sealant as required to meet code requirements for applications to seal top of wall and through-penetrations.

Section 07 92 00 - Joint Sealants

- ◊ General: elastomeric sealants to establish and maintain water, smoke, and air tight continuous joint seals without staining or deteriorating joint substrates.
  - Interior Surfaces inside weatherproofing system: Low VOC
  - Provide joint sealers at such areas as pavement and sidewalk joints, flashing and coping joints, masonry expansion/contraction construction joints, floor joints (interior), wall joints (exterior and exterior), interior wall/ceiling joints.

Section 07 92 19 - Acoustical Joint Sealers

- ◊ General: elastomeric sealants to establish and maintain sound tight continuous joint seals without staining or deteriorating joint substrates.
  - Interior Surfaces inside weatherproofing system: Low VOC
  - Provide joint sealers at such areas as classroom walls, partitions systems to receive sound batt insulation, perimeter joints at metal frames, mechanical and electrical rooms adjacent to corridors and classrooms.

Section 07 95 00 – Expansion Control

- ◊ Exterior wall and roof expansion control systems with -25%/+75% expansion range
  - Aluminum covers with anodized finish
  - Neoprene membrane seals
  - Cellular foam insulation
  - Inside and outside corners

Section 07 99 50 – Commissioning of Thermal Moisture Protection Systems

◊ Per Owner's protocol and minimum code requirements
  - 2014 Oregon Structural Specialty Code

DIVISION 08 – DOORS AND WINDOWS

Section 08 11 13 - Hollow Metal Doors and Frames

◊ Doors, frames and relites will be hollow metal construction with flush face joints, reinforced for heavy-duty operational conditions, and anchored to floors and walls.
  - Exterior doors, other than aluminum entrances, to be manufactured from 0.053 inch thick metallic-coated steel, thermally insulated, and with vertical reinforcement to prevent distortion
  - Interior doors manufactured from 0.042 inch thick cold-rolled steel fire rated as applicable.
  - Frames to be manufactured from 0.053 inch thick steel, with coating to match door.
  - Glazed lites: factory cut openings with stops located to prevent unauthorized removal from exterior of secured location.

Section 08 14 16 - Flush Wood Doors

◊ All interior doors will be solid staved core wood doors with a plain sliced red oak veneer, custom grade face, constructed of recycled and low-emitting materials, factory pre-finished with premium grade finish.
  - All doors will be 1-3/4" thick, solid laminated core, particle board PC-5 or PC-7, except mineral core where required for fire rating.
  - Life of installation warranty will be required for all doors.

Section 08 31 13 - Access Doors and Frames

◊ All access doors for mechanical and electrical systems will be galvanized metal, and fire rated where required, and lockable. Frames will be flange-type.

Section 08 33 13 - Overhead Coiling Door

◊ Overhead coiling service door, motorized, stainless steel slats, guides and hood, lockable (kitchen serving lines), Cookson Type CD10-2M, or equal.

◊ Overhead coiling counter door, motorized operation, stainless steel slats, guides and hood, lockable (kitchen scullery), Cookson Type CD10-2M, or equal.

Section 08 33 26 - Overhead Coiling Grille

◊ Overhead coiling grille, push-up operation, aluminum, anodized finish, aluminum hood, lockable (Instrument Rehearsal Room, keyboard storage).

Section 08 41 13 – Aluminum-Framed Entrances and Storefronts

◊ Exterior Storefront:
  - Design based on EFCO Series 960.
  - Storefront framing to be 2-1/2" x 5" extruded-aluminum thermally broken curtain wall system constructed of not less than 0.062" aluminum thickness at any location for main frame and sash members; clear anodized finish.

- Entrance frames adjacent to doors to be heavy-wall type of not less than 3/16" thick wall construction. Provide non-removable stops on exterior.
- Entrance doors to be heavy-wall type of not less than 3/16" thick wall construction.

◊ Interior Storefront : Design based on EFCO Series 401

◊ Insulated Infill Panel: 1" thick insulated panel with aluminum factory finish set in glazing channel of aluminum storefront system. Panel consists of 1/8" aluminum plate each side reinforced with 1/8" fiber cement board behind plate over 5/8" polystyrene insulation sandwiched in the midsection of the panel, anodized finish on aluminum panel.

Section 08 51 13 – Aluminum Windows

◊ Exterior windows: aluminum architectural windows based on EFCO 2900 Series
- 4 1⁄2" heavy commercial Window with vertical or horizontal stacking members
- AAMA Heavy Commercial and Architectural Grade rating
- Thermally broken and constructed of not less than 0.062" aluminum thickness at any location for main frame and sash members; Kynar finish; custom color
- All windows will be fixed
- Windows shall be factory glazed with insulated units.
- Tempered glazing at Connections 1 classroom windows

Section 08 62 00 – Unit Skylights

◊ Frame: aluminum frame members, channels and caps with condensation resistance factor (CRF) of 53 or better.

◊ Finish: clear anodized

◊ Tested according to AAMA-501.1 under dynamic pressure

◊ Glazing:
- Light Transmittance: greater than 0.50
- Thermal Transmittance (U-Factor): not more than 0.65 Btu/sq.ft.
- Solar Heat Gain Coefficient: not greater than 0.7

Section 08 62 21 – Tubular Skylights

◊ Curb/frame: aluminum frame members, channels and caps with condensation resistance factor (CRF) of 53 or better.

◊ Finish: clear anodized

◊ Tested according to AAMA-501.1 under dynamic pressure

◊ Construction:
- Glazing Light Transmittance: greater than 0.50
- Thermal Transmittance (U-Factor): not more than 0.65 Btu/sq.ft.
- Solar Heat Gain Coefficient: not greater than 0.7
- Dome top, per manufacturer's standard
- Reflector tubing
- Interior Diffuser

Section 08 62 00 – Unit Skylights

◊ Frame: aluminum frame members, channels and caps with condensation resistance factor (CRF) of 53 or better.

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- ◊ Finish: clear anodized
- ◊ Tested according to AAMA-501.1 under dynamic pressure
- ◊ Glazing:
  - Light Transmittance: greater than 0.50
  - Thermal Transmittance (U-Factor): not more than 0.65 Btu/sq.ft.
  - Solar Heat Gain Coefficient: not greater than 0.7

Section 08 71 00 - Finish Hardware

- ◊ All hardware to be of heavy-duty commercial grade construction, meeting District standards and past practices.
- ◊ All hardware to be in compliance with life safety code NFPA 101 (1981); ICC/ANSI A117.1, 2009; and the Americans with Disabilities Act (ADA) Accessibility Guidelines for Building and Facilities.
- ◊ All fire rated openings will be in compliance with the NFPA Standard No. 80, 1983.
- ◊ Finish: The finish of hardware in general will be integrated into the interior color scheme.
- ◊ Locksets and panic devices will be by Sargent Manufacturing Company.
- ◊ Locks: All locks shall be mortise type with lever handles using the return end design for handicap requirements, cores by Schlage.
- ◊ Hinges: All exterior doors will receive extra heavy weight, non-ferrous hinges. Interior doors to receive three weight bearing regular weight hinges. Size according to door size and weight.
- ◊ Door closers: Norton, fully adjustable for spring power and contain separate key valves for speed, latching and back check adjustments. Closers for wood doors to be installed with through bolts.
- ◊ Kick plates: Kick plates to be installed on all self-closing doors. Plates to be 10” high and mop plate 4” high. Kick plates to be made of plastic laminate 1/8” thick and beveled on sides. Color as selected by architect.
- ◊ Door stops: Wall bumpers to be used where possible. Floor type stop only to be used where necessary. Exterior doors shall receive pipe type stops unless conflicting with foot traffic.
- ◊ Weather-stripping: All exterior doors provided with aluminum thresholds, door sweeps and weather-stripping.
- ◊ Interior doors in smoke-resistive construction to receive smoke gasketing.
- ◊ Miscellaneous: Provide one key control cabinet capable of storing 120% of keys actually used.
- ◊ Keying: Match School District system. District standard keyway “H.”
- ◊ Provide four (4) keys per room.
- ◊ Magnetic hold-opens at Corridor doors and additional locations to be determined.
- ◊ Blocking in wall at magnetic door hold-open and wall stops. Material: metal, continuous support by two (2) wall framing members.
- ◊ Electric operating locks: Building-wide centrally controlled system to enable locking of exterior doors simultaneously, integrated with card access and security system.

Section 08 80 00 - Glazing

- ◊ Interior Glazing:
  - Typical: 6 mm (¼”) thick annealed glass, clear.
  - Butt glazing: 12 mm (½”) thick annealed glass, clear.
  - Safety: ¼” tempered in locations where required by code.
  - High-impact athletic areas: ½” fully tempered safety glass

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- High security or abuse potential: 2 layers tempered, laminated, 12mm overall thickness, 0.030" interlayer
- Acoustical: 2 layers tempered, laminated, 12 mm overall thickness, 0.060" interlayer
- Glazed sectional doors: 2 layers tempered, laminated, 7mm overall thickness, 0.030" interlayer with low-e coating.

◊ Interior Glazing Channel: satin anodized U-channel 1" deep at sill and jamb, 1-1/2" deep at head with roll-in glazing gasket, by C. R. Laurence Company

◊ Exterior Glazing:
- Typical: insulated units using 1/4" glass sheets hermetically sealed around argon gas core, low-e coating, tinted or clear depending on solar orientation, tempered in locations where required by code.
- High performance glazing: High light transmittance and low solar heat gain coefficient glass at exposed south and west wall locations. Basis of design: Guardian Industries SN68
  - Visible Light Transmittance: 68
  - Winter Nighttime U-Value: 0.29
  - Summer Daytime U-Value: 0.28
  - Solar Heat Gain Coefficient: 0.38
  - Doors and Entry Glass: Tempered and laminated insulated glazing at exterior conditions and clear tempered at interior.

◊ Skylight Glazing: insulated unit with 6mm tempered outer layer, 12mm air space, 12mm laminated interior panel with a diffused white pvb interlayer, low-e coating on #2 surface, Guardian SunGuard SuperNeutral SN54 on clear glass, 60% transmittance, 0.29 U-factor, 0.34 SHGC (solar heat gain coefficient).

◊ Safety & Security Film: Basis of design product 3M Scotchshield Safety & Security window film Ultra Series "Ultra S800" shall be installed in the following typical locations;
- ◊ Main entry doors and windows into front office and entry corridor
- ◊ Any other entry doors with glass
- ◊ Any "direct path" windows from parking lots or areas of concealment
- ◊ Windows into areas with high volumes of occupancy; ie cafeteria
- ◊ Any exposed or high profile personnel

<u>Section 08 83 00 – Mirrors</u>

◊ Mirror, Abuse-Resistant: 1/4" thick, safety Type I, Class I glazing mounted to wall with a tamper-resistant method.
- Aluminum edge molding, mill finish.

<u>Section 08 90 00 – Louvers</u>

◊ Fixed, extruded-aluminum louver of heavy-duty (0.080" thickness) horizontal drainable blade construction, with high performance organic coating, equipped with insect screening and 1-inch insulated blank off panels as required.

DIVISION 09 - FINISHES

Section 09 05 61 – Floor Preparation

- ◊ Moisture protection and alkalinity measures to prepare concrete substrates for application of finish flooring under the following finishes:
- ◊ Strip foreign material and contaminants that will prevent adhesive bond.
- ◊ Monitor and adjust slab moisture level.
- ◊ Apply primer pretreatment.

Section 09 21 16 – Gypsum Board Shaft Wall Assemblies

- ◊ Interior steel framing and suspension systems for elevator shaftway

Section 09 22 16 – Non-Structural Metal Framing

- ◊ Interior steel framing and suspension systems for all supports for walls/ceilings, soffit framing and furring.
- ◊ Steel studs and runners to be standard profile, minimum 25 gauge, with allowable unsupported height as recommended by manufacturer.
- ◊ Special conditions will be accommodated at door and window openings, mechanical ducts soffits, slip-type conditions, firestopping, and resilient or 'z' channels.

Section 09 29 00 – Gypsum Board

- ◊ General: 5/8" thick, Type "X", typical at interior stud walls/soffits:
- ◊ Gypsum wallboard (ASTM C36).
- ◊ Abuse Resistant locations: Abuse-resistant gypsum wallboard.
- ◊ Wet locations: Moisture and mold resistant gypsum wallboard.
- ◊ Exterior Soffits: Exterior gypsum soffit board (ASTM C931c or M).

Section 09 30 00 - Tiling

- ◊ Public and Staff Restrooms
  - Floors: Unglazed Ceramic Mosaic Tile, 2" x 2", 1/4" thick, thinset,
  - Walls: Glazed Ceramic Tile 4 1/4" x 4-1/4", 5/16" thick, thinset
- ◊ Waterproofing:
  - Floors and shower walls: fabric-reinforced, fluid-applied waterproofing membrane
- ◊ Setting Materials:
  - Latex-modified dry-set mortar, non-sagging at walls,
  - Polymer-modified tile grout
  - Silicone grout sealer
- ◊ Accessories:
  - Thresholds: marble, beveled edges

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Section 09 51 13 - Acoustical Panel Ceilings

- ◊ Acoustical Ceiling Panels for general areas: mineral composition ceiling panel with impact/abrasion resistant surface and antimicrobial fungicide and bacteria treatment, 24" x 48", ¾" thick, square edge, high humidity type, unless noted otherwise.
- ◊ Perforated Metal Ceiling Panels for music areas: 2' x 2', formed in 3-D patterns to set in exposed suspension grid, colors in Flat White or Silver Satin; solid metal and perforated with sound - absorbent fabric layer backer, GEOMETRIX™ by Armstrong.
  - Sound-Absorbent Fabric Layer, black, nonwoven, nonflammable, sound-absorbent material meets flamespread index of 25 or less and smoke-developed index of 50 per ASTM E 84.
- ◊ Acoustical Ceiling Panels for kitchen areas: USG, Clean Room Clima Plus (3220 and 3230), lay in panels, USDA approved, non-perforated, washable, non-vinyl face, gypsum panel substrate; LR 1 (0.85); CAC 35/40, square edge, white, 24" x 48" x 1/2".
- ◊ Suspension System: Direct hung, metal suspension system with seismic and hold-down clips, 9/16" or 15/16" grid, heavy duty grade, painted white.

Section 09 54 26 – Linear Wood Ceiling

- ◊ Solid wood strip ceiling, 5¼" wide x ¾" thick, ¾" reveals between strips, mounted on ceiling suspension system, stain and clear semi-gloss finish on wood.
- ◊ Wood species: Western Red Cedar at exterior; Pine, fir or Hemlock at interior stained to match.
- ◊ Suspension System: factory finished black, with seismic struts, and anchors; black felt between strips at interior and bug screen at exterior.
- ◊ Manufacturer: Rulon Company, 9wood

Section 09 65 13 – Resilient Base and Accessories

- ◊ Wall base: Vulcanized rubber thermoset, with matching end stops and pre-formed corner units, 4" height typical, 1/8" gauge thickness, standard top set cove matte finish.
- ◊ Adhesive: water-based, low emitting interior material.
- ◊ Transition strips for various flooring materials, as required.

Section 09 65 16 - Resilient Sheet Flooring

- ◊ Sheet Rubber Flooring: Environcare by Nora Systems, Inc. in the health room.
- ◊ Sheet Rubber Flooring: Advance by Mondo, in Gym

Section 09 65 17 - Linoleum Flooring

- ◊ Linoleum Tiles: 18" x 18", 2.5 mm thick, linoleum sheet with fibrous backing, Forbo, Marmoleum, or equal. Tiles used for ease of replacement.
- ◊ Linoleum Sheet: in 78-inch rolls
- ◊ Heat welded seams
- ◊ Cove base: integral base with metal cap in wet areas
- ◊ Floor polish: protective liquid floor polish, two coats.

Section 09 68 16 - Carpeting

- ◊ Carpet Tile: CF Antron nylon fiber carpet with a fused, close-cell, vinyl cushion backing, Collins & Aikman, Crayon.
- ◊ Transitions: metal and rubber transitions to adjacent flooring materials.

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Section 09 72 00 – Wallcoverings

◊ Vinyl Wallcovering: RJF International - Koroseal - "Interweave"
  - Total Weight Excluding Coatings: 18.07 oz./sq/yd.: vinyl weight 28 oz./lin. yd.
◊ Perforated Vinyl Wallcovering: RJF International - Microvented Wallcovering - Koroseal - "Interweave"

Section 09 72 11 – Digitally Printed Wallcoverings

◊ Vinyl Wallcovering: RJF International - Koroseal - "Interweave"
  - Total Weight Excluding Coatings: 18.07 oz./sq/yd.: vinyl weight 28 oz./lin. yd.
- Graphics: Manufacturer's applied graphic imaging process

Section 09 77 13 – Stretched Fabric Wall Systems

◊ Acoustical Wall Treatment (AWT): System consists of site installed and fabricated, concealed framing system with stretched fabric over acoustical batt absorption core.
◊ Frame System: Extruded plastic polymer; designed to friction fit and hold fabric in place by tucking fabric into a slot in a profiled track
◊ Standard Acoustical Core: 1 inch (25 mm) polyester or fiberglass batt, not less than NRC 0.80.
◊ Facing Material: plain weave, non-directional, woven polyester, by Guilford of Maine.

Section 09 84 13 – Fixed Sound-Absorptive Panels

◊ Concealed-mount acoustical wall panels: Prefabricated units, 48" wide, factory finished, with perforated corrugated metal facing fastened to 2" wide perimeter channel frame with glass-fiber board core.
◊ Acoustical Wall Panels (AWP): Fabric wrapped panels over a 6-7 pcf compressed fiberglass core, 2-inches thick, tackable, formaldehyde-free, 60% recycled product, cloth or vinyl fabric finish adhered to polyester backing, LBI/Boyd, Ecocore. Single panels available up to 49" x 97".
◊ High Impact Acoustical Wall Panels (HIP): Impact resistant 0.063" (1/16") perforated thermoplastic sheet adhered to 1-7/8" thick, dual density fiberglass core, fiberglass facing, 4' X 8' and 4' X 4' sizes, Impact+Plus, Quiet Coordinates by CMA.

Section 09 91 13 – Exterior Painting

◊ General: 3 coat premium grade system consisting of primer, intermediate coat, and topcoat. All low-emitting materials.
◊ High contact metal surfaces (doors, frames, hand railings, bollards): Low VOC acrylic polyurethane primer plus acrylic polyurethane topcoats)
◊ Low contact metal surfaces (overhead conduits, steel, steel decking, canopies, flashing): Low VOC latex primer plus exterior latex topcoats)

Section 09 91 23 – Interior Painting

◊ General: 3 coat premium grade system consisting of primer, intermediate coat, and topcoat. All low-emitting materials.
◊ Typical Interior CMU Walls: Block filler/primer, interior latex, semigloss finish
◊ Epoxy system for CMU walls: Block filler/primer, two component, water-based epoxy, semigloss finish
◊ Gypsum board surfaces: latex primer, interior latex, eggshell finish.
◊ Plaster surfaces: Interior alkyd primer, interior latex, semigloss finsh.

◊ Insulation covered substrates: (pipe, duct coverings), latex primer/sealer, interior latex, eggshell finish.

Section 09 93 00 – Staining and Transparent Finishing

◊ Finish carpentry/interior wood trim: Semi-transparent stain with 3 coats of clear polyurethane (semi-gloss).
◊ Wood panel-product substrates: Semi-transparent stain with 3 coats of clear polyurethane (semi-gloss).

Section 09 96 23 – Graffiti Resistant Coatings

◊ General: Clear-drying, water based silicone emulsion, breathable coating which resists staining of protected surface. Provide graffiti remover for owners use.
◊ Exterior wall surfaces up to 10' height above grade on all exposed masonry and concrete.
◊ Interior Ground Face CMU: Full height on all exposed surfaces.

DIVISION 10 - SPECIALTIES

Section 10 10 00 – Visual Display Surfaces

◊ Markerboards: wall-mounted composition panel with perimeter frame for use with felt tip liquid markers, steel sheet faced with porcelain enamel fused, matte finish. Includes marker trays, map rails, map hooks, and flag pole holders.
◊ Tackboards: wall-mounted, vinyl fabric faced cork sheet with fiberboard backing and frame.
◊ Visual display rails: narrow rail shape with cork fabric
◊ Tack Surfaces: vinyl impregnated cork, ¼" thick, Bulletin Board by Forbo
◊ Sharewall: full-wall dry erase magnetic whiteboard and projection surface.

Section 10 12 00 - Display Cases

◊ General: Factory-fabricated cabinet with visual display surface background and adjustable tempered glass shelves, 24" deep, built-in to wall/soffit construction.
◊ Entry lobby units: hinged glass doors with heavy-duty locks at front with perimeter face trim, vinyl faced tackboard assembly on back inside surface, maple veneer plywood cabinet box, tempered glass shelves, with concealed top-lighting system.
◊ Prefabricated units with aluminum hinged frames, 36"w x 48"h, glass shelves, by Claridge.
◊ Glass Showcase Hardware: Sugatsune XL-GC Series hinges and locks for custom fabricated hinged doors.

Section 10 14 00 - Signage

◊ General: ADA compliant system (tactile text with braille), with tamper-resistant anchorage.
◊ Specialty signs to include the following:
  - Exterior signs to include the following:
    - post and panel directional signs
    - entry plaque
    - accessible routes/entrances
    - dimensional letters, per elevations
  - Interior signs to include the following:
    - primary room plaques-room name and number

- secondary room plaques- room name and number
- restroom plaques-gender symbol, tactile name
- maximum occupancy plaque
- dimensional letters
- building plaque-institutional quality, cast bronze recognition plaque
- Slotted Panel Display Sign with aluminum tracks for holding heavy card paper or plastic sheet signs, 32"h X 60"w, divided into (5) 12"sections.

Section 10 14 63 – Electronic Readerboard

- General: LED illuminated readerboard displaying text and graphics 19.8 mm pixel pitch; Two-view display configuration, approx. size of 3'-8" high x 9'-5" wide, monochrome graphics
- Signs to include the following:
  - Pedestal Mount: 10' High, metal frame structure with sheet metal enclosure

Section 10 21 13 - Toilet Compartments

- Toilet partitions: high-pressure plastic laminate (.062") finish with a phenolic core; floor anchored, overhead braced, with in-swing doors for non-accessible units, out-swing doors for accessible units. Standard-height doors.
- Shower partitions: High-pressure plastic laminate (.082) finish with phenolic core; floor anchored, overhead braced.
- Wall Brackets: heavy duty hardware.
- Accessories: equipped with privacy latch, door pull, coat hook, and door bumpers.

Section 10 21 23 – Cubicle Curtains and Tracks

- Curtain tracks and carriers: extruded aluminum track with nylon glide with hooks.
- Training room curtain: antimicrobial polyester.
- Track: ceiling-mounted, stainless steel

Section 10 22 11 – Interior Chain Link Fences and Gates

- Chain link partitioning and gate system used to subdivide storage areas and to provide security.

Section 10 22 26 – Folding Panel Partitions

- Operable, acoustical panel partition, with 16 gauge steel frame and face sheet, by Advanced Equipment Corp., Model 5MS12S11, ALPHA 'S' panel, 3-1/2" thick, type #1 track
- Sound transmission: STC 53, with bottom rubber seal.
- vinyl wall cover finish to match room finish, wall carpet above 7' AFF
- Manually-operated, single units at Stage
- Markerboards on stage side, 4'h x 16'w, 8'w with staff lines.
- Electrically-operated, continuous assembly at Gym-Commons opening

Section 10 26 00 – Corner Guards

- Corner Guards, PVC: Vertical, surface-mounted, textured, opaque-plastic, fabricated from high-impact PVC plastic, acrylic-modified vinyl sheet; with formed edges, 2" leg.
- Corner Guards, Stainless Steel: Vertical, surface-mounted, 16 gauge, #304 stainless steel, #4 stain finish, 2" leg, applied with screws.

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Section 10 28 00 - Toilet, Bath, and Laundry Accessories

- ◊ General: Stainless steel prefabricated units with accessibility features and vandal-resistant where required. Contractor to install all items, and provide all items not otherwise provided by Owner.
- ◊ Owner furnished/contractor installed items:
  - toilet tissue (2 roll) dispenser
  - paper towel (roll) dispenser
  - liquid soap dispenser
  - sanitary napkin dispenser, napkin/tampon vending machine, 15 napkins/25 tampons
  - sanitary napkin disposal unit
  - seat cover dispenser: 250 cover capacity
- ◊ Contractor furnished/contractor installed items:
  - grab bar: 1-1/2" O.D., slip-resistant texture in grip area, flange-mounted, Bobrick B-5806.
  - framed mirrors (glass), Bobrick B-290, 48" x 36" at student toilets (changed from 24" x 36"), 18" x 36" at staff toilets

Section 10 28 00 - Toilet, Bath, and Laundry Accessories (continued)

- heavy-duty shower curtain rod, Bobrick B-207.
- shower curtains/hooks, Bobrick 204-1 curtain hook.
- wall-mounted shower seat: L-shaped seat, phenolic or polymeric composite folding unit, anchored to wall with toggle anchors, Bobrick B-5181.
- towel hooks, Bobrick B-670, inside student showers
- coat hooks, Bobrick B-670, on doors of staff toilets and itinerant offices.
- warm air dryers: semi-recessed units, multi-function capability for hair or hand drying positions in enclosed toilet rooms and locker rooms
- fold-down changing unit: semi-recessed, fold-down changing unit, 250-lb static load capacity, semi-recessed mounting
- under-lavatory guards: antimicrobial, molded-plastic insulating pipe covering for supply and drain piping to prevent direct contact with piping, Truebro, LavGuard
- Custodial accessories:
  - mop and broom holder, 36" long, 4 holders, Bobrick B-223 x 36
  - utility shelf, stainless steel, 16" long, supported by two triangular brackets
  - paper towel (roll) dispenser

Section 10 41 00 – Emergency Access & Information Cabinets

- ◊ Building-Mounted Emergency Lock Box: High security key box with enhanced rust and corrosion protection mounted with recessed mounting installation, by Knox Box, model as requested by the local authority. Locate at main entry and two side gate entrances
- ◊ Key cabinet, metal construction, surface wall-mounted, 120-key capacity, piano hinges, five-disc tumbler cam lock, manufactured by Kekab. Located in custodians office.

Section 10 44 13 - Fire Protection Cabinets

- ◊ Semi-recessed, steel fire extinguisher cabinet
- ◊ Door Style: vertical duo panel with Tempered break glass and lock.
- ◊ Cabinet Finish: Satin chrome steel

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Section 10 44 16 - Fire Extinguishers

- ◊ Fire extinguishers
  - Multipurpose Dry-Chemical Type: 3-A:40-B:C, 5-lb, monoammonium phosphate-based dry chemical in enameled-steel container, in typical building areas.
  - Class-K Wet-Chemical Type: UL-rated, 2-A:K, 20-lb, potassium bicarbonate-based wet chemical in stainless steel container, for kitchen and science rooms.
  - Clean-Agent Type: 5-B:C, 4.75-lb, HFC blend agent in enameled-steel container, for computer and data frame rooms.
- ◊ Mounting brackets: wall-mounted with identification signage

Section 10 51 13 – Metal Lockers

- ◊ General: All-welded construction athletic lockers with welded body components, to accommodate padlocks by students, with ADA accessible features, identification plates. Handicap locks for 5% of all lockers.
  - Channel formed frames, 0.060-inch sheet steel; lapped and factory welded corners.
  - 3-point latching mechanism
  - Hinges: three, full loop, five-knuckle type.
  - Finish: high grade baked enamel finish.
- ◊ Storage Lockers (for kitchen staff and custodian's use): heavy duty, single tier, hasp for padlock (12"w x 72"h x 15"d)

Section 10 56 13 - Metal Storage Shelving

- ◊ Factory formed, field assembled, freestanding post-and-shelf metal shelving system, with height adjustable intermediate shelving, baked enamel finish.

Section 10 71 13 – Exterior Sun Control Devices

- ◊ Fixed, integral sunshade device consisting of horizontal blades affixed to arms, installed onto existing CMU columns, stainless steel brackets and fasteners.
- ◊ Prefabricated product of 6063-TC aluminum, clear anodized aluminum.
- ◊ Size: 17-inches wide x 10-feet long, fabricated from 1/8-inch thick aluminum plate
- ◊ Profile style: "Airfoil"
- ◊ Fasteners: Stainless steel
- ◊ Manufacturer: C/S Sun Controls, Construction Specialties, Inc.

Section 10 75 00 – Flagpoles

- ◊ Flagpole: extruded aluminum, 7" diameter, 40' high, (1) pole at main building entry

DIVISION 11 - EQUIPMENT

Section 11 24 29 – Facility Fall Protection

- ◊ General: safety anchor fall protection restraint system to provide for safe execution of maintenance operations, including travel restraint. Designed to accommodate low slope roof applications for either membrane or metal roofing systems.

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◊ Horizontal Lifeline Fall Protection System: Complete pre-engineered multi-span flexible lifeline system consisting of end anchors, intermediate anchors, stainless steel cable, mobile attachment devices (shuttle runners, in-line fittings (tensioner, energy absorber, corner fittings, etc.)
◊ Anchors: injection molded urethane insulation with EPDM flashing seals and stainless steel or aluminum collar for anchorage to structural framing members

Section 11 31 00 – Residential Appliances

◊ General: Heavy-duty residential appliances which have an Energy Star rating.
◊ Appliances which are to be owner furnished and contractor installed include:
- Clothes washer: stacking, frontload, ADA compliant,
- Refrigerator (Teacher's Lounge): 28 cu. ft. french-door, bottom freezer.
- Refrigerator (Health Office): under counter type, 4 cu. ft., 3 shelves, ice tray.
- Ice Machine (Health Room): undercounter type, 15" wide.
- Range: (Teacher's Lounge): free-standing, 30" wide, electric, radiant burners.
- Range Hood: Broan, Model RP1 Series Pro-Style, 30", stainless steel.
- Microwave oven
- Dishwasher: ADA compliant

Section 11 40 00 – Food Service Equipment

◊ Section includes commercial Kitchen food service equipment.
◊ Equipment to be commercial grade.
◊ Manufactured and custom fabricated equipment shall comply with all Regulatory Code Requirements.
◊ Materials:

- Stainless Steel: ASTM A-240, Type 304; gauge as required. 2B finish on totally concealed surfaces; polished 150 grit finish where exposed (Number 4 finish).
- Sheet Steel: ASTM A-569 hot rolled carbon steel
- Galvanized Sheet Steel: ASTM A526; G90 Zinc Coating
- Galvanized Steel Pipe: ASTM A53 or ASTM A120, welded or seamless, schedule 40, galvanized
- Aluminum: ASTM B209B221 sheet, plate and extrusions
- Zinc Coated Steel Shapes and Angles: ASTM A-36
- Sealant: DOW 732 RTV, Sealant Specialty 100% RTV
- Sound Deadening Material: 3M#42NF Plus, Bemford 3140 water base, Mortell Sound Pack, 1/16 inch foil backed
- Cutting Boards and Table Tops
- Wood: Laminated maple
- Poly: Read Products; John Boos. Provide in sections as required to fit warewashing equipment
- Food Guard Glass: 1/4 inch laminated safety glass
- Millwork: ¾" plywood marine grade plywood (no particle board will be allowed)

◊ Whenever possible equipment shall be made portable. Those items with closed bodies shall be set on raised bases. Open base equipment shall be made with tubular stainless steel legs having sanitary gussets and bullet-shaped feet or casters.
◊ Finishes:
- Kitchen finishes are to be smooth, washable, and light in color. Flooring material shall have an abrasive slip resistant surface with cove base. If the ceiling is suspended the tiles used shall be

mylar coated for cleaning. Recommended wall finish is a washable wall board wainscot material, i.e.: FRP, minimum up to 6 feet with a semi-gloss painted wall surface continuing up to the ceiling.

Stainless steel wall flashing will cover the cooking wall surfaces.Section 11 52 00 – Audio-Visual Equipment

- ◊ Short Throw Projector Mount: Hitachi UST 1 wall arm, compatible with projector, mounted over markerboard; OFCI
- ◊ Short Throw Projector: Hitachi Model CP-AW252WN, ultra-short throw projector.
- ◊ Large Venue Screen: motorized, front projection, matt white projection surface, black borders with remote keyed switch.
  - Screen Mounting: recessed in stage soffit
  - Viewing Area: 118"h x 188"w, 1.6:1 format
  - Viewing Angle: 60 degrees
  - Screen Drop: 60 inches
  - Keyed Switch with locking cover plate.

Section 11 52 13 – Projector Mount

- ◊ Short Throw Projector Mount: Hitachi UST 1 wall arm, compatible with projector, mounted over markerboard; OFCI

Section 11 61 43 – Stage Curtains

- ◊ Stage Drapery: Flame retardant treated, 100% cotton velour, special color for valance and house curtain, all other velour color black. Fullness for valance, house curtain and traveler; all other drapery flat.
  - House curtain and borders
  - Border curtain at light bars
  - Backdrop curtain
  - Side curtains on trolley and track
  - Light bars

Section 11 66 23 - Gymnasium Equipment

- ◊ Basketball Equipment
  - Two (2) main court overhead-mounted, forward folding, glass basketball backstops, breakaway goals, motor operated.
  - Four (4) side court, wall-mounted, side folding, fiberglass basketball backstops, breakaway goals, height adjustable, manual operated.
- ◊ Volleyball Equipment
  - Three (3) pair, aluminum universal height standards
  - One (1) competition package
  - Volleyball nets
  - Storage Rack: Porter model V-825 wall rack
  - Transport Cart: Porter model V-956 storage/transport cart
  - Floor anchors
- ◊ Badminton Equipment

- Multi-height standards
- Badminton nets
- Storage rack and cart
- Floor anchors

◊ Pull-Up bars
- Wall or ceiling mounted pull-up bars.

◊ Safety Pads
- 2" thick, safety pads, puncture and tear resistant
- Special corner units for door recesses, etc.
- Graphic logo/graphics at main gym

Section 11 68 23 – Exterior Court Athletic Equipment

◊ Aluminum Backstop: galvanized, 4.5 " diameter pole; 5' extension; fan shaped aluminum backboard; heavy duty goal. Porter Athletic Equipment Company, Model #00175-340.
◊ Basketball Nets: 12-loop-mesh net, between 15 and 18 inches long.
◊ Backboard Safety Pads: extending continuously along bottom and up sides of backboard and over goal mounting and backboard supports.

Section 11 70 00 – Healthcare Equipment

◊ Defibrillator Cabinet: wall, surface-mounted, alarmed cabinet with clear door window to house automated external defibrillator, audible alarm and strobe light, powered with 2 AA batteries (no AC power), 13"h x 14"w x 7"d, white with red letters, by American AED, www.americanaed.com

Section 11 80 00 – Security Equipment (Library)

◊ Entry/Exit Detection System: Theft deterrent system for interior library doorways, consisting of complete installation to detect and report unauthorized passage of library materials treated with a sensitized material. Includes pair of detection towers on either side of each library entrance. Secure, vandal-resistant mounting.

DIVISION 12 - FURNISHINGS

Section 12 21 13 – Horizontal Louver Blinds

◊ Provide aluminum horizontal blinds, 1" wide aluminum slats, baked polyester paint finish, 0.008" aluminum.
- Manual operation with lift cord and tilt wand
- Motorized operation at inaccessible locations

Section 12 24 13 – Roller Window Shades

◊ Roller shades: manual operation, chain driven, anodized aluminum valence housing
◊ Roller shades: motorized operation, at remote windows
◊ Skylight Roller shades: motorized operation
◊ Shadeband Material, PVC-free fabric
- Light filtering fabric: 8% openness factor
- Light blocking fabric: zero openness factor

Section 12 32 00 – Manufactured Wood Casework

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- ◊ Cabinets
  - Plastic laminate faced manufactured casework, lockable.
  - Countertops: Plastic laminated on plywood
- ◊ Shelving: plastic laminate sheet, grade HGL or HGP, bonded to 3/4" plywood, with rigid PVC edge
- ◊ Tote Trays, ivory-colored high-impact polystyrene with nickel-plated name card-holders, size: 10-5/8"w x 18-7/8"d x 4-1/4"h.
- ◊ Laboratory casework: plastic laminate faced with rigid PVC edge, lockable.
  - Countertops: solid epoxy resin with epoxy sinks
  - Solid doors on upper and base cabinets (no glass)
  - Earthquake lip on shelving

Section 12 35 00 – Music Storage Casework
- ◊ Plastic laminate faced manufactured casework for music storage, by Wenger Corp.
- ◊ Polyethylene Shelves: High-density, one-piece, blow-molded or formed, with radiused front edge, for abuse-resistant shelves.
- ◊ PVC Edge Banding: PVC extrusions, 3 mm thick, round edge.
- ◊ Grille Doors: Bright basic steel wire
- ◊ Casework for musical instruments according to instrument list by school & District.

Section 12 48 13 - Entrance Flooring
- ◊ Walk-off mats, 100% Polymide cut pile, vinyl backing, Coral Brush Active by Forbo.
- ◊ Surface type mats adhered directly to the concrete slab.
- ◊ Mat Lengths: 12 to 16 feet minimum length

Section 12 93 00 – Site Furnishings (Landscape)
- ◊ Bicycle racks: pre-fabricated steel unit allowing double sided parking, capable of supporting 10 bikes, galvanized finish.
- ◊ Bollards: 4" diameter x 42" height, galvanized steel, schedule 80 pipe, anchored in concrete footing, with steel dome top.
- ◊ Anti-skate devices: Extruded aluminum members anchored securely and nesting onto railings, and edges of concrete site improvements.
- ◊ Concrete Benches
- ◊ Waste Receptacles: 30-gallon capacity, powder-coated finish

DIVISION 13 – SPECIAL CONSTRUCTION
- ◊ Not Used.

DIVISION 14 – CONVEYING SYSTEMS

Section 14 24 00 – Hydraulic Passenger Elevator
- ◊ Elevator: Electrically operated, machine room-less
- ◊ Model: Kone EcoSpace (basis of design)
- ◊ Rated Speed: 110 fpm

- Travel: 14 feet, 2 stops
- Rated Load: 3500 lb.
- Cab size: 6'-8" W x 5'-5-1/2" D, clear inside, sized to fit emergency gurney, 8'-0" height.
- Power: 480v, 3 phase supplied
- Finishes:
  - Floor: Rubber flooring
  - Walls: Plastic laminate panels
  - Ceiling: Stainless steel panels with LED downlight fixtures
  - Railings: Stainless steel
- Telephone connection for emergency use
- Conforms to Oregon State Accessibility regulations
- Manufacturer: Kone, Thyssen Krupp, or Otis Elevator Company

DIVISION 31 – EARTHWORK

Section 31 21 13 – Radon Mitigation

- Provide first floor subslab ventilation chamber constructed as follows:
  - Geotextile fabric over compacted subgrade
  - 6" of aggregate, passing #5 sieve (1"-1/2") with no fines
  - Soil Gas Retarder membrane: 10 mil polyethylene with minimum perm rating of .3, with minimal lapped seams
  - Seal slab joints and penetrations
  - Coordinate placement of subslab soil exhaust discharge ventilation piping up through roof

END OF ARCHITECTURAL OUTLINE SPECIFICATIONS

Wilkes Elementary School
Reynolds School District No. 7

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DIVISION 21 – FIRE PROTECTION

Section 21 05 00 – Common Work Results for Fire Suppression Systems

◊ General: Section includes specific contractual requirements for the design-build fire protection contractor, including shop drawings, submittals, O&M's, change orders, alternates, warranty, coordination with other trades, and general installation requirements.

Section 21 10 00 - Water Based Fire Suppression Systems

◊ General: Section includes wet pipe, dry pipe, fire protection system products and accessories.

DIVISION 22 – PLUMBING

Section 22 05 00 – Common Work Results for Plumbing

◊ General: Section includes specific contractual requirements for the plumbing contractor, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 22 05 18 - Plumbing Expansion Compensation

◊ General: Section includes stress analysis calculations, expansion joints/loops and compensators.

Section 22 05 19 - Meters and Gauges for Plumbing

◊ General: Section includes thermometers, pressure gauges and water meters.

Section 22 05 23 - General Duty Valves and Specialties for Plumbing

◊ General: Section includes service valves (gate, globe, ball, butterfly), check valves, balance valves, specialty valves (gas, etc.), pressure reducing valves, system specialties, relief valves and strainers.

Section 22 05 29 - Hangers, Supports, and Anchors Plumbing

◊ General: Section includes delegated design for supports, anchorage and restraint. Products include supports, pipe attachments, rollers/shields/saddles, and building attachments.

Section 22 05 48 - Vibration and Seismic Controls for Plumbing Piping and Equipment

◊ General: Section includes vibration isolation attachment products and seismic restraint between plumbing piping/equipment and the building.

Section 22 05 53 - Identification for Plumbing Piping and Equipment

◊ General: Section includes identification materials and labels for plumbing valves, piping, and equipment.

Section 22 05 90 - Pressure Testing for Plumbing Systems

◊ General: Section includes pressure testing for plumbing piping (sanitary and roof drainage, domestic hot/cold, natural gas).

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Section 22 05 93 - Testing, Adjusting, and Balancing for Plumbing

- General: Section includes testing, adjusting and balancing of domestic hot water recirculation systems and mixing valves.

Section 22 07 00 - Insulation for Plumbing

- General: Section includes plumbing pipe insulation, acoustical wrap and insulation accessories for piping.

Section 22 08 00 - Commissioning for Plumbing

- General: Section includes startup and testing requirements for the plumbing system equipment and piping.

Section 22 21 13 - Pipe and Pipe Fittings Plumbing

- General: Section includes pipe, pipe couplings and fittings for domestic hot/cold, sanitary waste/vent, storm, and natural gas.

Section 22 21 23 - Pumps for Plumbing

- General: Section includes in-line circulating pumps, and sump pumps.

Section 22 25 00 - Plumbing Water Treatment

- General: Section includes water treatment products and procedures for domestic water piping.

Section 22 30 00 - Plumbing Equipment

- General: Section includes electric and gas water heaters and storage tanks, backflow preventers, heat trace cabling, and expansion tanks.

Section 22 40 00 - Plumbing Fixtures

- General: Section includes plumbing fixtures (water closets, urinals, lavatories, sinks, mop sinks, showers, drinking fountains, mixing valves), emergency fixtures, drainage products (hose bibbs, roof/overflow drains, floor drains/sinks, cleanouts, trap primers, grease interceptors, etc.).

DIVISION 23 – HVAC

Section 23 05 00 – Common Work Results for HVAC

- General: Section includes specific contractual requirements for the mechanical contractor, including shop drawings, submittals, O&M's, change order, alternates, firstopping, warranty, coordination with other trades, and general installation requirements.

Section 23 05 14 -Variable Frequency Drives for HVAC Equipment

- General: Section includes VFD's for HVAC fans/pumps.

Section 23 05 18 - HVAC Expansion Compensation

- General: Section includes stress analysis calculations, expansion joints/loops and compensators.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 05 19 - Meters and Gauges for HVAC

- ◊ General: Section includes thermometers, pressure gauges, differential pressure gauges, and water meters.

Section 23 05 23 - General Duty Valves and Specialties for HVAC

- ◊ General: Section includes service valves (gate, globe, ball, butterfly), check valves, balance/control valves, specialty valves, system specialties, expansion tanks, air separators, relief valves, strainers, and suction diffusers.

Section 23 05 29 - Hangers, Supports, and Anchors for HVAC

- ◊ General: Section includes delegated design for supports, anchorage and restraint. Products include supports, pipe attachments, rollers/shields/saddles, and building attachments.

Section 23 05 48 - Vibration and Seismic Controls for HVAC Piping and Equipment

- ◊ General: Section includes vibration isolation attachment products and seismic restraint between HVAC piping/equipment and the building.

Section 23 05 53 - Identification for HVAC Piping and Equipment

- ◊ General: Section includes identification materials and labels for HVAC valves, piping, and equipment.

Section 23 05 90 - Pressure Testing for HVAC Systems

- ◊ General: Section includes pressure testing for ductwork, and HVAC piping (chilled water, heating water, refrigerant piping).

Section 23 05 93 - Testing, Adjusting, and Balancing for HVAC

- ◊ General: Section includes testing, adjusting and balancing of Air Systems (fans, diffusers/grilles, etc.), Hydronic Systems (pumps, coils, etc.), and Electric Heating Systems.

Section 23 07 00 - Insulation for HVAC

- ◊ General: Section includes HVAC pipe and duct insulation, acoustical wrap and insulation accessories.

Section 23 08 00 - Commissioning for HVAC

- ◊ General: Section includes startup and testing requirements for the HVAC system equipment and distribution components.

Section 23 09 00 - Instrumentation and Controls for HVAC

- ◊ General: Section includes a design-build Building Management System (BMS) for control and monitoring of HVAC systems and energy metering.

Section 23 09 93 - Sequence of Operations for HVAC Controls

- ◊ General: Section includes sequences of operation for HVAC equipment.

Section 23 21 13 - Pipe and Pipe Fittings HVAC

- ◊ General: Section includes pipe, pipe couplings and fittings for heating and chilled water piping.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 21 23 - Pumps for HVAC Systems
- ◊ General: Section includes base mounted and in-line centrifugal pumps.

Section 23 25 00 - HVAC Water Treatment
- ◊ General: Section includes water treatment products and procedures for closed loop heating and chilled water piping system.

Section 23 31 01 - HVAC Ducts and Casing-Low Pressure
- ◊ General: Section includes sheet metal ductwork for low pressure air systems.

Section 23 31 02 - HVAC Ducts and Casing-Medium Pressure
- ◊ General: Section includes sheet metal ductwork for medium pressure air systems.

Section 23 33 00 - Air Duct Accessories
- ◊ General: Section includes air duct accessories for low and medium pressure air systems (sealer, dampers, flexible connectors, turning vanes, access doors, fittings, fire and smoke dampers).

Section 23 34 00 - HVAC Fans
- ◊ General: Section includes roof fans, roof vents, and inline/cabinet fans.

Section 23 36 00 - Air Terminal Units
- ◊ General: Section includes single duct terminal units.

Section 23 37 00 - Air Outlets and Inlets
- ◊ General: Section includes diffusers and grilles for air distribution systems.

Section 23 40 00 - HVAC Air Cleaning Devices
- ◊ General: Section includes medium and high efficiency air filters.

Section 23 51 00 - Breechings, Chimneys, and Stacks
- ◊ General: Section includes condensing boiler and water heater breechings and stacks

Section 23 52 00 - Heating Boilers
- ◊ General: Section includes natural gas fired condensing boilers.

Section 23 55 00 - Fuel Fired Heaters
- ◊ General: Section includes gas fired make-up air units for kitchen hoods.

Section 23 57 00 - Heat Exchangers
- ◊ General: Section includes flat plate type water-to-water heat exchangers for chilled water glycol loop isolation/freeze protection.

Section 23 70 00 - Central HVAC Equipment
- ◊ General: Section includes custom/semi-custom indoor and outdoor air handling units.

Section 23 72 00 - Air to Air Energy Recovery Units
- ◊ General: Section includes air to air heat recovery units.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 23 81 00 - Decentralized Unitary HVAC

◊ General: Section includes packaged rooftop HVAC units, split-systems air-conditioning units, and variable refrigerant flow (VRF) systems.

Section 23 82 00 - Convection Heating and Cooling Units

◊ General: Section includes hydronic heating and chilled water coils, refrigerant coils, fan coil units, finned tube radiators, unit heaters, convectors, cabinet unit heaters, and radiant panels.

Section 23 83 16 - Radiant-Heating Hydronic Piping

◊ General: Section includes radiant in-slab PEX piping/couplings and manifolds.

Section 23 84 10 - Electric Heating Equipment

◊ General: Section includes electric duct heaters, unit heaters, cabinet unit heaters, wall heaters, radiant cove heaters, and heat trace cabling.

DIVISION 26 – ELECTRICAL

Section 26 05 00 – Common Work Results for Electrical

◊ General: Section includes specific contractual requirements for the electrical contractor, including shop drawings, submittals, O&M's, change order, alternates, firstopping, warranty, coordination with other trades, and general installation requirements.

Section 26 05 19 - Low Voltage Electrical Power Conductors and Cables

◊ General: Section includes conductors and splicing materials for low voltage power distribution (under 600 volts).

Section 26 05 26 - Grounding and Bonding for Electrical Systems

◊ General: Section include the power system grounding requirement and materials.

Section 26 05 29 - Hangers and Supports for Electrical Systems

◊ General: Section includes hanger and support for conduit system, equipment, cable tray and seismic requirement for equipment.

Section 26 05 33 - Raceways and Boxes for Electrical Systems

◊ General: Section include the different types of conduit raceway and fitting allowed and installation methods, and floor boxes.

Section 26 05 36 - Cable Trays for Electrical Systems

◊ General: Section include ladder cable tray systems to use for telecom cabling organization and routing.

Section 26 05 43 - Underground Ducts and Raceways

◊ General: Section include vaults and conduits for exterior underground construction.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 26 05 53 - Identification for Electrical Systems

- General: Section include all identification materials and labels for conduits, wiring, electrical and mechanical equipment and receptacles.

Section 26 05 73 - Overcurrent Protective Device Coordination Study

- General: Section include a circuit breaker coordination study and recommended setting, which is done by the contractor as a deferred submittal. The circuit breaker coordination study is code required for the emergency system.

Section 26 09 23 - Lighting Control Devices

- General: Section includes devices for daylighting lighting dimming control.

Section 26 09 43 - Network Lighting Controls

- General: Section include the lighting timeclock control system, which is required by the Oregon energy code.

Section 26 22 00 - Low Voltage Transformers

- General: Section include dry type low voltage transformers for conversion of 480vac to 208vac.

Section 26 24 13 – Switchboards

- General: Section include the distribution panel and equipment for the main incoming power service panel and sub-distribution.

Section 26 24 16 – Panelboards

- General: Section includes branch panelboards (circuit breaker panels) for both the 480 and 208vac systems, to be used for lighting and receptacle circuiting.

Section 26 27 26 - Wiring Devices

- General: Section includes, lighting switches, power receptacles, and associated cover plates and occupancy sensors.

Section 26 29 00 - Motor Controllers

- General: Section includes, motor starters, disconnect switches, and elevator power modules.

Section 26 32 13 - Engine Generators

- General: Section includes an exterior diesel engine power generator system and associated weatherproof housing and fuel tank.

Section 26 33 53 - Static Uninterruptible Power Supply System

- General: Section include UPS units for use as battery backup system for telecom systems.

Section 26 36 23 - Automatic Transfer Switches

- General: Section Includes ATS switch for use in switching from a normal power source to an generator power source.

SCHEMATIC DESIGN

MEP – Outline Specifications

Section 26 43 13 - Surge Protection devices

◊ General: Section include a power voltage surge suppression device, device will be used on the main incoming power service.

Section 26 50 00 - Lighting

◊ General: Section includes materials and installation for interior and exterior lighting products, including, lamps, drivers, ballasts and fixtures.

DIVISION 27 – COMMUNICATIONS

Section 27 05 00 - Common Work Results for Communications

◊ General: Section includes specific contractual requirements for the technology contractor, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 27 05 26 - Grounding and Bonding for Communication Systems

◊ General: Section includes grounding requirements specific for the telecom systems and raceways and telecom room equipment.

Section 27 05 28 - Pathways for Communication Systems

◊ General: Section includes specific requirement for raceway, conduits and cable tray system oto be used for telecom system.

Section 27 08 00 - Commissioning of Communications

◊ General: Section include the startup and testing requirements for the telecom system equipment and cabling.

Section 27 11 00 - Communications Equipment Room Fittings

◊ General: Section Includes telecom room equipment, racks, plywood backboards, ladder runway, fireproof wall sleeves.

Section 27 11 19 - Communications Termination Blocks and Patch Panels

◊ General: Section Include the patch panel and termination blocks for the termination of copper telecom cabling.

Section 27 13 00 - Communications Backbone Cabling

◊ General: Section includes fiber and copper cabling type for the telecom infrastructure distribution system.

Section 27 15 00 - Communications Horizontal Cabling

◊ General: Section Includes the CAT cabling and data outlet, jacks, and cover plates.

Section 27 41 16 - Integrated Audio-Video Systems and Equipment

◊ General: Section includes A/V system products, including, floor boxes, equipment racks, control systems, displays, conferencing equipment, projector, projector screens, microphones and wiring.

Section 27 51 16 - Public Address Systems

◊ General: Section includes products and installation for building wide paging system, including system speakers, amplifiers, and wiring.

Section 27 53 19 - Internal Cellular, Paging, and Antenna Systems

◊ General: Section includes a distributed antenna system (DAS) products and installation for an emergency responder communications system within the building.

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

Section 28 05 00 - Common Work Results for Electronic Safety and Security

◊ General Section includes specific contractual requirements for the access controls, video surveillance and fire alarm system contractors, including shop drawings, submittals, O&M's, change order, alternates, firestopping, warranty, coordination with other trades, and general installation requirements.

Section 28 05 13 - Conductors and Cables for Electronic Safety and Security

◊ General: Section includes conductor and cabling for the access control, video surveillance and fire alarm system.

Section 28 13 00 - Access Control

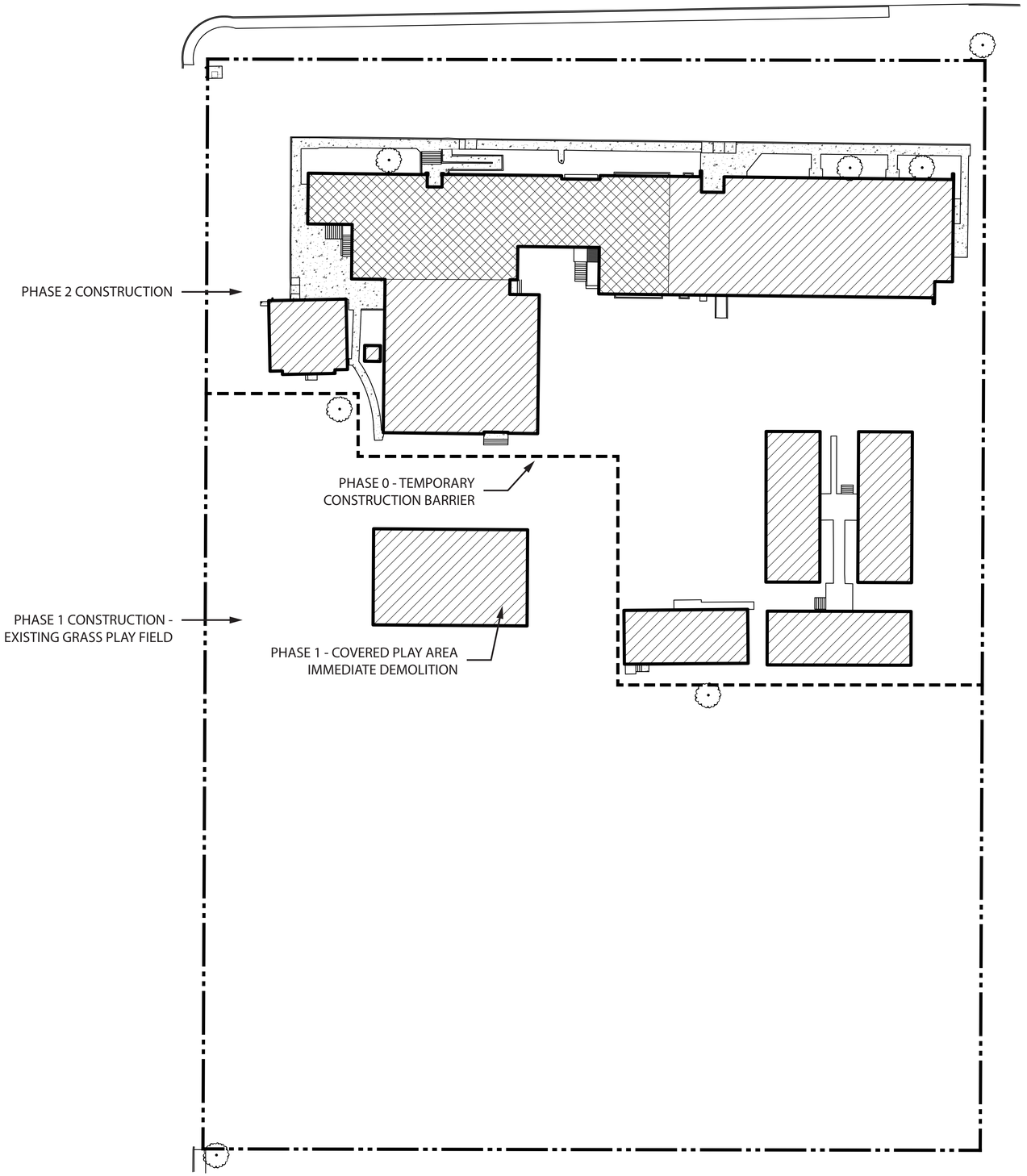
◊ General: Section includes equipment for access controls, including, door locks, door access identification pads, pushbutton stations, motion sensors, badging ID, cabling and control panels.

Section 28 23 00 - Video Surveillance

◊ General: Section includes video surveillance cameras, camera housings, power supplies, video recorders and cabling.

Section 28 30 00 - Fire Detection and Alarm

◊ General: Section includes a fire alarm system, control panel, remote annunciator, smoke detectors, pull stations, strobes and horn/strobes, tamper and flow switches.



DEMOLISH STRUCTURE

DEMOLISH STRUCTURE
ABOVE AND CONCRETE
BASEMENT BELOW

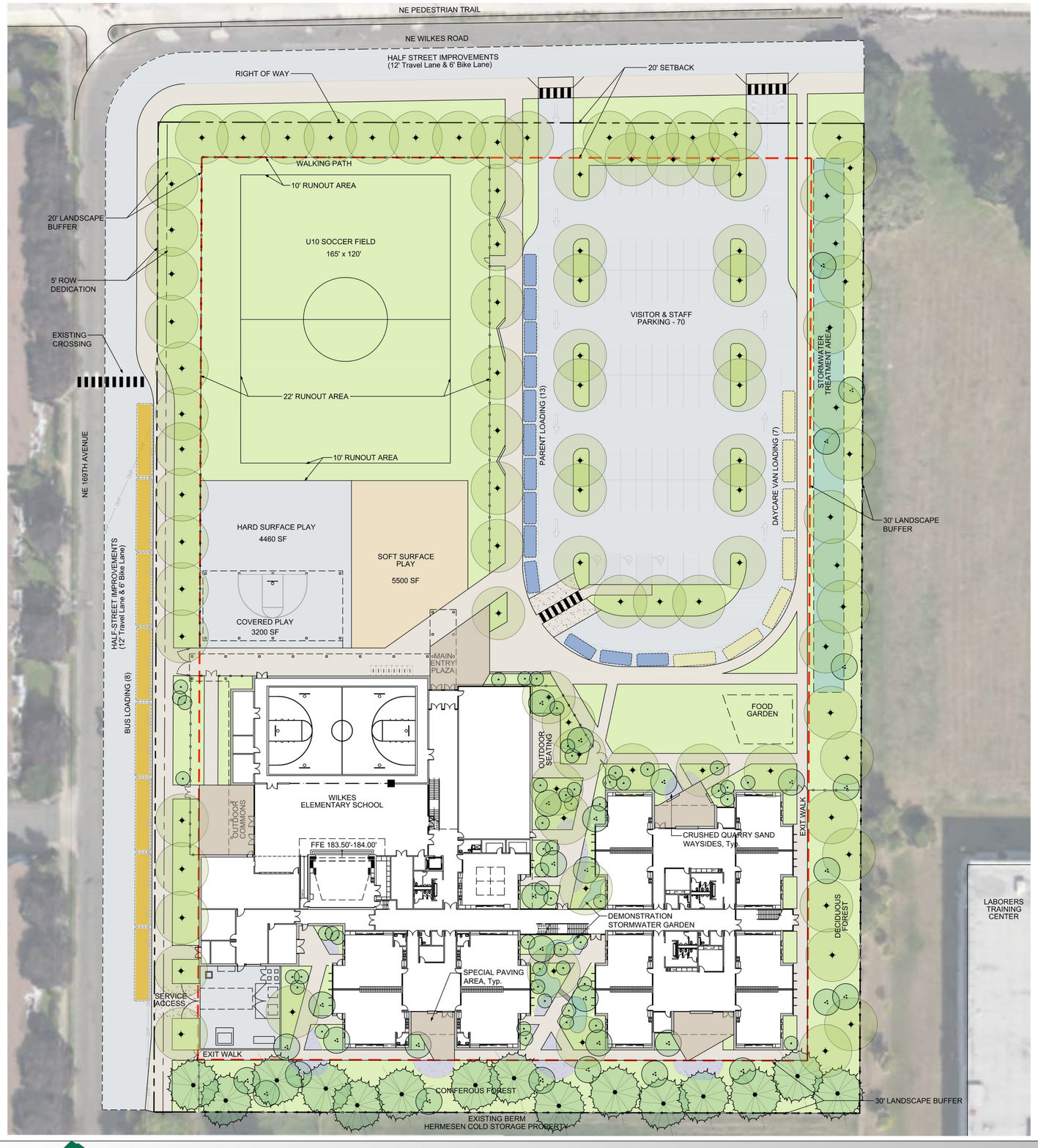
DEMOLISH SITE CONCRETE

0' 30' 60'

Reynolds School District

Wilkes ES Demolition Plan

BLRB architects



INSPIRATIONAL IMAGES







OFF-STREET PARKING TABULATIONS

PERMANENT PARKING: 70 SPACES
PARENT LOADING: 13 SPACES
DAYCARE VANS: 7 SPACES
BIKE PARKING: 16 SPACES

LEGEND

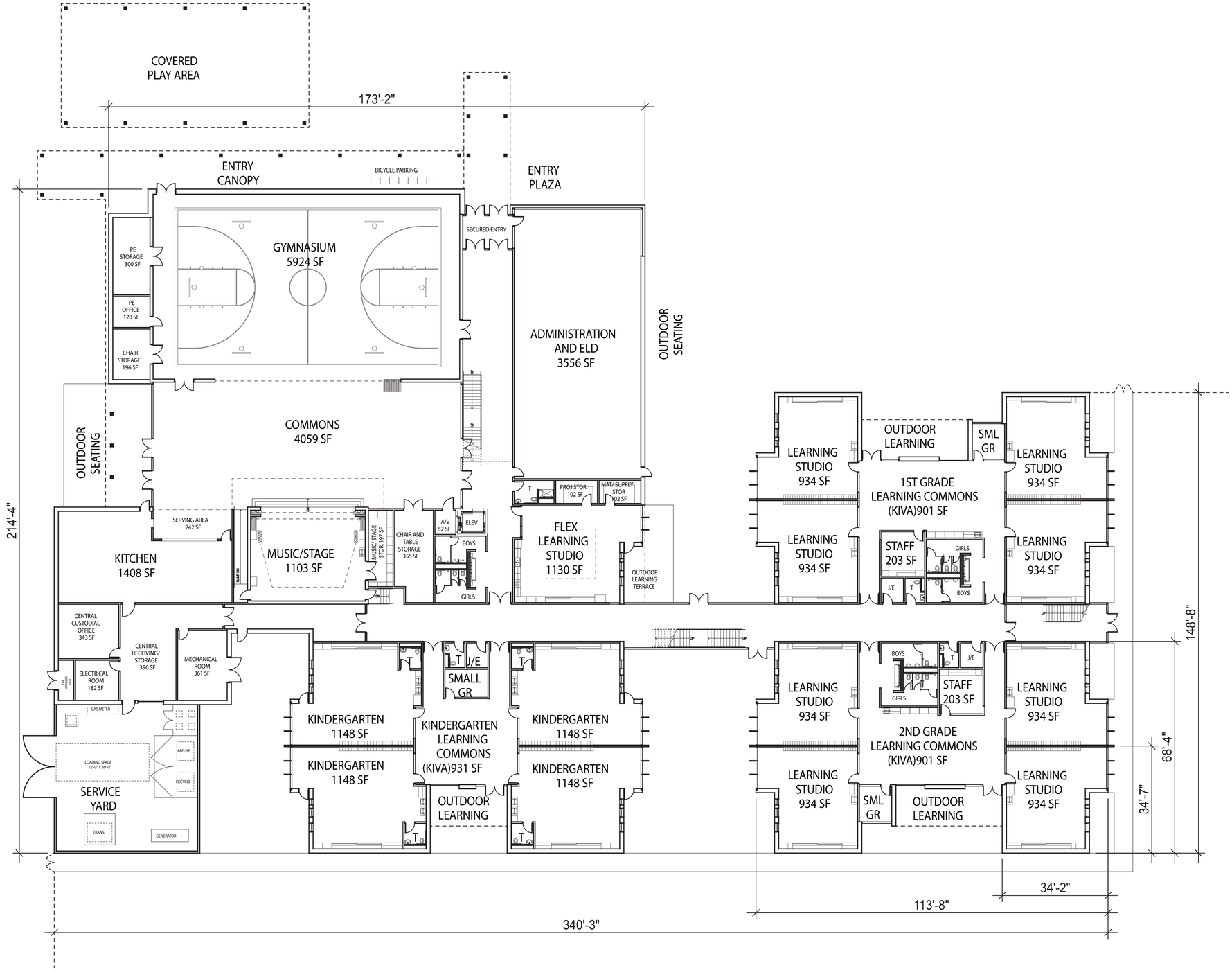
- PROPERTY LINE
- SETBACK
- FENCE
- SCHOOL BUS
- PARENT VEHICLE
- DAYCARE VAN
- ASPHALT PAVING
  4" AC over 10" of base course.
  See Civil.
- CONCRETE PAVING
  4" over 4" of base course.
  See Civil.
- SPECIAL PAVING AREAS
- VEHICLE LOADED CONCRETE PAVING
  6" of concrete over 6" of base course.
  See Civil.
- SOFT PLAY AREA
- PLANT BED/LAWN
- STORMWATER TREATMENT AREA
- DECOMPOSED GRANITE WAYSIDES
- PROPOSED TREES

0' 30' 60'

Reynolds School District

Wilkes ES Site Plan

BLRB architects

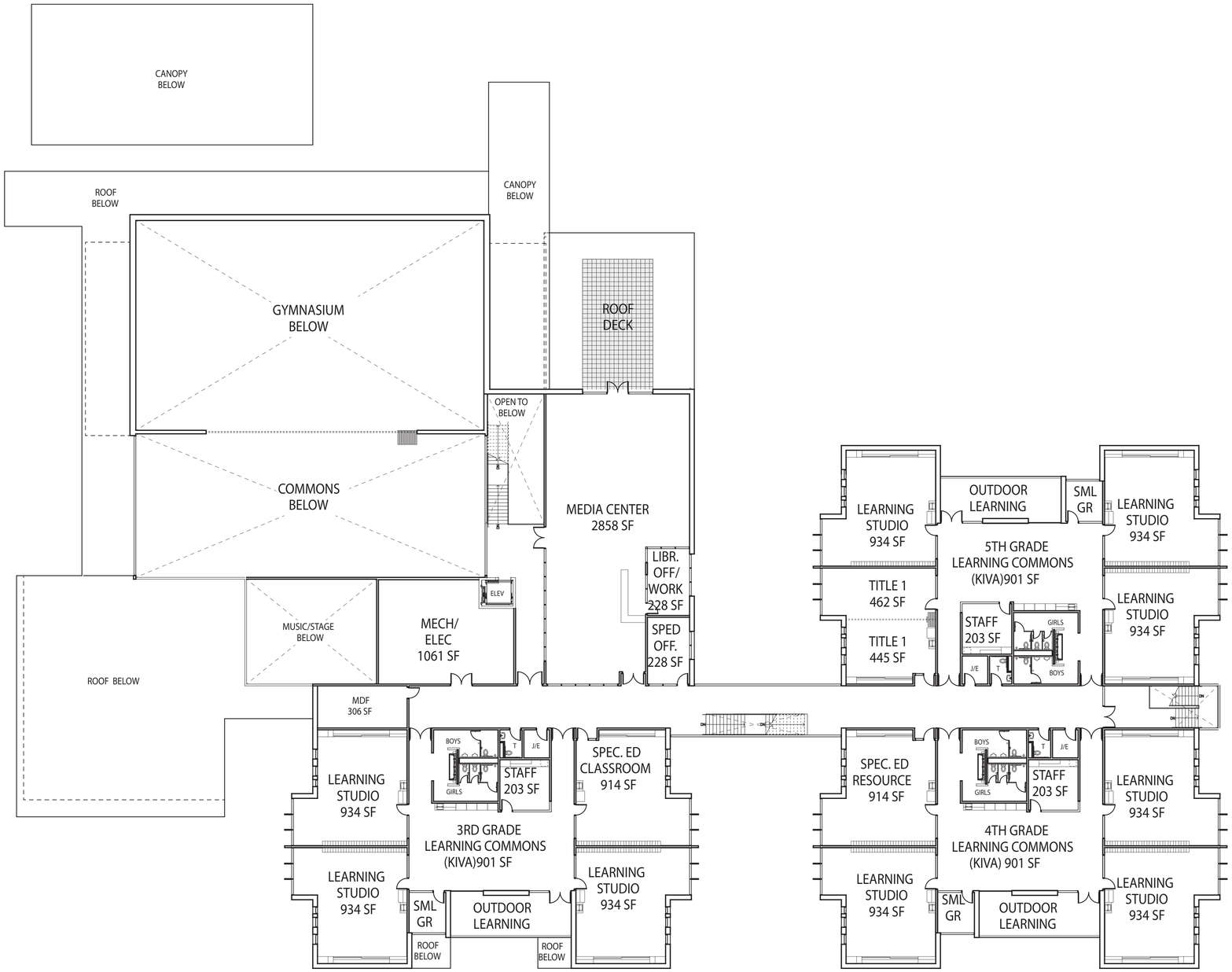


0' 16' 32'

Reynolds School District

Wilkes ES Floor Plan Level 1

BLRB architects

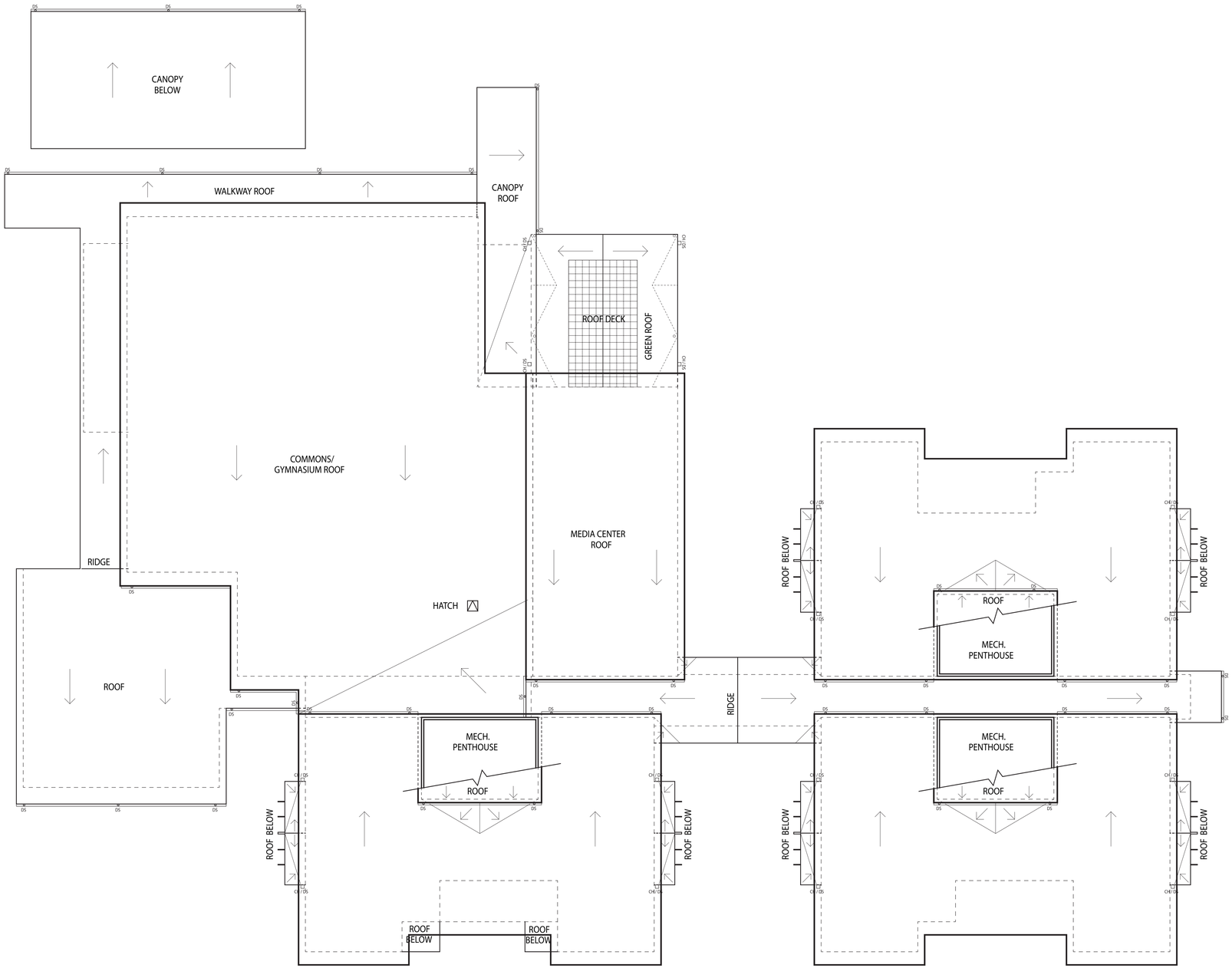


0' 16' 32'

Reynolds School District

Wilkes ES Floor Plan Level 2

BLRB architects



BUILDING EDGE BELOW ROOF

ROOF EDGE

GUTTER WITH DOWNSPOUT

CONDUCTOR HEAD WITH DOWNSPOUT BELOW

TAPERED ROOF INSULATION SLOPE

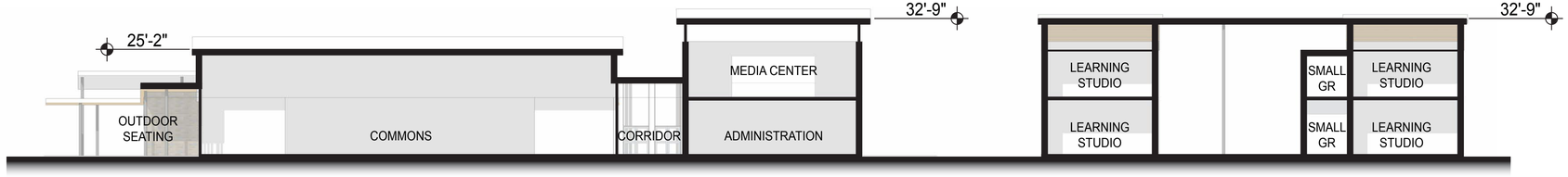
DIRECTION OF STRUCTURAL SLOPE

0' 16' 32'

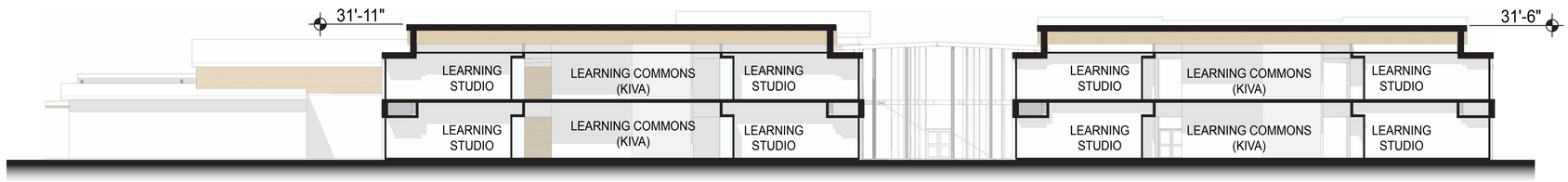
Reynolds School District

Wilkes ES Roof Plan

BLRB architects



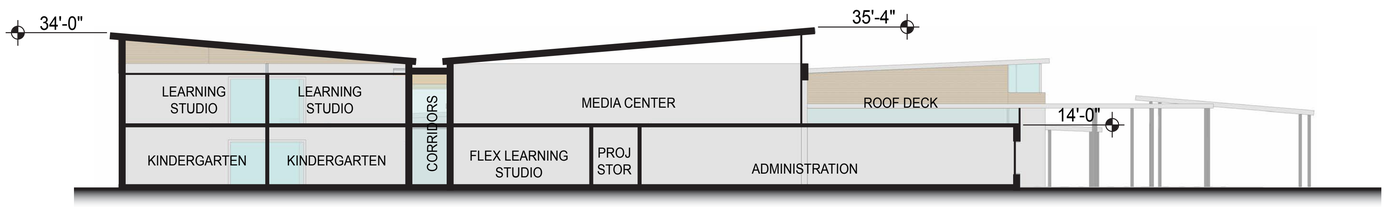
North Section 1



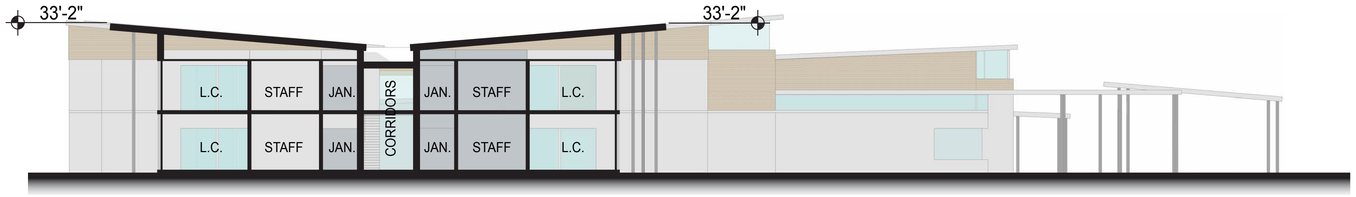
North Section 2



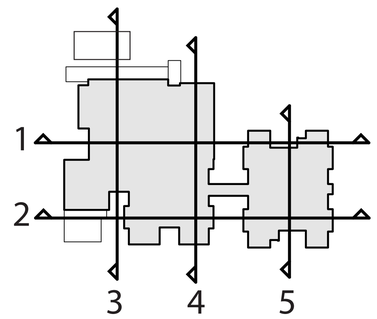
West Section 3



West Section 4



West Section 5

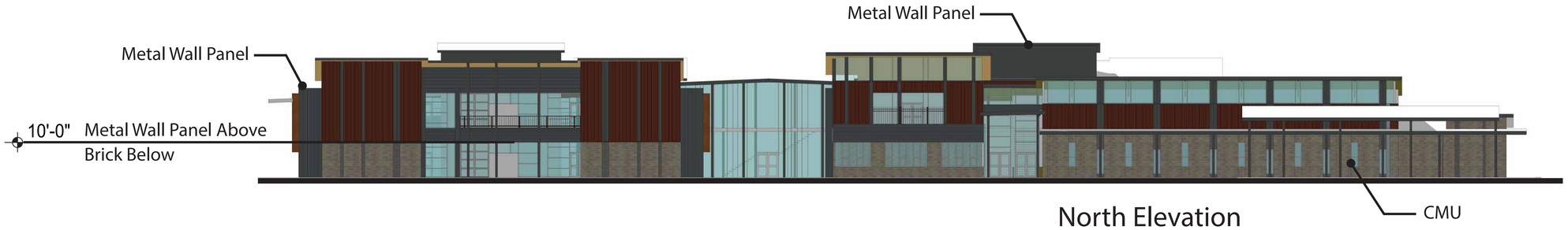


0' 16' 32'

Reynolds School District

Wilkes ES Sections

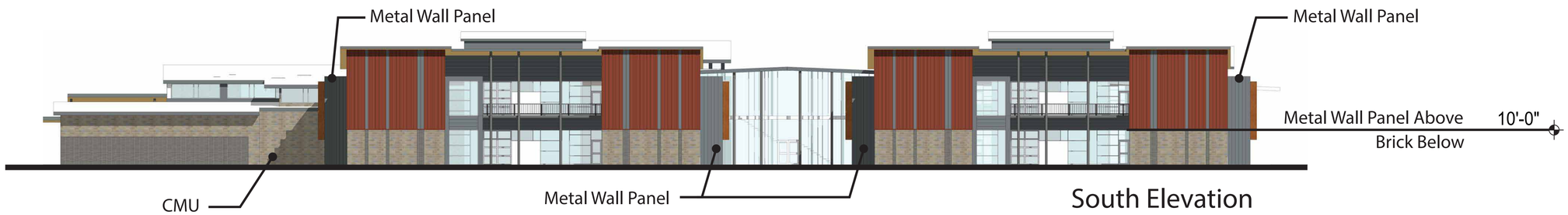
BLRB architects



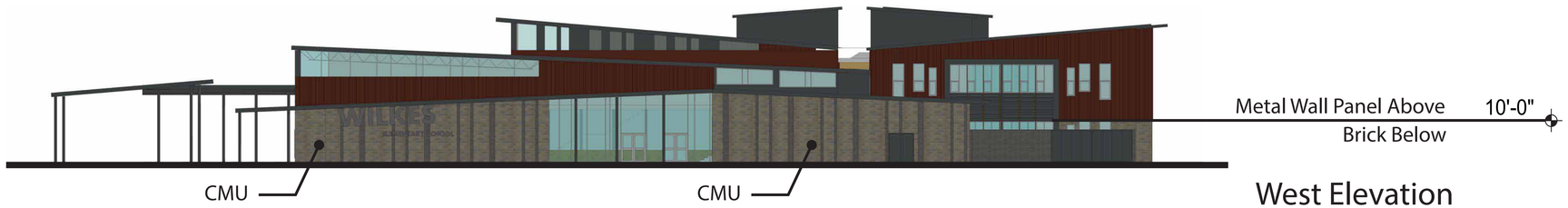
North Elevation



East Elevation



South Elevation



West Elevation

Exterior Wall Assemblies

Brick
- -Gypsum Board
- -Metal Stud Framing
- -Blanket Insulation R13
- -Sheathing
- -Rigid Insulation R7.5
- -Ties/ Anchors
- -Brick/ Masonry Veneer

CMU
- -12" Concrete Masonry Units
- -RIgid Insulation R11.4
- -Ties/ Anchors
- -Brick Masonry Veneer

Metal Wall Panels
- -Gypsum Board
- -Metal Stud Framing
- -Blanket Insulation R13
- -Sheathing
- -Rigid Insulation R7.5
- -Metal Furring System
- -12"W Metal Wall Panels

0' 16' 32'

Reynolds School District

Wilkes ES Elevations

BLRB architects

PBS | Engineering + Environmental

Pre-Demolition Hazardous Building Materials Survey Report

Wilkes Elementary School
17020 NE Wilkes Road
Portland, OR 97230

Prepared for:

Reynolds School District No. 7

General Information	1.1
Inspection Summary	1.2
Probable Cost Estimates	1.7
Survey Drawings	2.1
Sample Inventories	3.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered

February 2016
Project No.: 23881.002 Phase No.: 001

4412 SW Corbett Avenue, Portland, OR 97239
503.248.1939 Main
866.727.0140 Fax
888.248.1939 Toll-Free

www.pbsenv.com

GENERAL INFORMATION

BUILDING DATA

Wilkes Elementary School
17020 NE Wilkes Road
Portland, OR 97230

CLIENT DATA

Reynolds School District No. 7
1204 NE 201st Ave.
Fairview, OR 97024-9642

SURVEY SCOPE

PBS Engineering and Environmental Inc. (PBS) has performed a pre-demolition hazardous building materials survey of accessible building areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Suspect polychlorinated biphenyl (PCB) light ballast inspection
- Inspection summary
- Floor plan diagrams indicating material and sample locations
- Probable removal cost estimate

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials in the building; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition activities that are not identified in this report, testing should be performed prior to impact.

PBS has conducted a physical inspection of the building, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Derek May
Project Manager
Accreditation # IR-16-0009A

S. Derek May 2/24/16
Signature Date

Rich Dufresne
Prime Inspector
Accreditation # IMR-16-0264A

Rich Dufresne 2/24/16
Signature Date

INSPECTION SUMMARY

DATES	SURVEYED BY	ACTIVITY
12/23/2015	Rich Dufresne	Inspect and Sample

PBS has investigated accessible areas inside of the building(s) to locate suspect asbestos-containing materials (ACM). Suspect materials may be present in concealed areas (e.g., behind walls and under carpet). The findings are listed below.

ASBESTOS MATERIALS

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.
(+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

Result	Material (type)	Location	Approx. Quantity
(+)	Mag Block Insulation	Boiler Room, Boiler	SF
(+)	Mag Block Insulation	Boiler Room; Water Tank	SF
(+)	Asbestos Pipe Insulation	Throughout	LF
(+)	Hard Fittings/Fiberglass	Throughout	EA
(+)	Roofig Debris	Attic Spaces Throughout	SF
(+)	Vinyl Floor Tile and Mastic; Various Types	Various Locations and Layers Througout	12,200 SF
(+)	Electrical Board	Boiler Room	1 SF
(+)	Sink Undercoating	Teachers Lounge	1 EA
(+)	Joint Compound	Various Locations Throughout	NOT QUANTIFIED

INSPECTION SUMMARY

MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

Material (type)	Location
Caulk/Sealant; HVAC Duct Sealant	Basement
Ceiling Tile Mastic	Throughout
Covebase/Mastic; Various Types	Throughout
Lay-in Ceiling Tile; 2' x 4'	Various Locations Throughout
Leveling Compound	Various Locations
Masonry Paint	Throughout
Poured Flooring	Basement; Corridor
Sheet Floor Covering; White Aggregate	East Restrooms
Vinyl Floor Tile/Mastic; 12" Blue	Media center
Vinyl Floor Tile/Mastic; 12" Dark Tan	Corridor Stairs
Vinyl Floor Tile/Mastic; 12" Gray	East Corridor
Vinyl Floor Tile/Mastic; 12" Tan	Title 1 Classroom
Vinyl Floor Tile/Mastic; 12" White	Main Corridor
Vinyl Floor Tile/Mastic; 12" White	2nd Grade Classroom
Vinyl Floor Tile/Mastic; 12" White	Basement; Kitchen
Vinyl Floor Tile/Mastic; 12: Beige	ELD Classroom
Wall and Ceiling Plaster	Throughout
Wall Mastic/Bulletin Board Mastic	Various Classrooms

INSPECTION SUMMARY

BACKGROUND

In December, 2015, PBS performed a pre-demolition hazardous building materials survey of Wilkes Elementary School located at 17020 NE Wilkes Rd, Portland, Oregon.

The purpose of the survey was to identify asbestos-containing building materials, lead-based paint, mercury-containing products, and other regulated materials that may be impacted by the planned demolition of the structures at the site. This survey included the main school building, music out building, and all portables located at the site.

This survey is compiled to satisfy the requirements to perform an asbestos inspection prior to any renovation or demolition activities under the Oregon Administrative Rule (OAR) 340-248-0270 and Occupational Safety and Health Administration (OSHA) hazard communication requirements. This survey is not intended to serve as an abatement scope, specification, or bidding document.

PBS reviewed and utilized prior hazardous building materials surveys in completing this investigation. The findings from prior surveys are included in this survey report.

ASBESTOS SUMMARY

Bulk samples of suspect asbestos-containing materials (ACM) were collected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector and submitted under chain of custody to Lab/Cor, Inc., of Portland, Oregon, for polarized light microscopy (PLM) analysis.

Asbestos-containing Thermal Systems Insulation (TSI)
Asbestos-containing TSI is present throughout the school.

- In the boiler room, the boiler, and associated hot water tank are insulated with asbestos-containing mag block insulation.

- Also located in the boiler room, asbestos-containing pipe insulating is present on the piping. The pipe insulation in the boiler room consists of pipe diameters from 4" up to 12" and includes straight runs, hard fittings, valves clusters, and the 12” diameter manifold.

Asbestos-containing TSI is also present on distribution piping throughout the school. The majority of accessible pipe insulation is non-asbestos. However, the pipes that are present in concealed locations such as above ceilings, in tunnels, in crawlspaces, and other pipe chases is asbestos-containing.

- The distribution piping located throughout the east wing has been replaced with copper and PEX piping. The original asbestos-insulated piping remains abandoned above the ceilings and inside walls. The piping was observed in damaged condition, with debris present atop ceiling panels.

- Asbestos-containing pipe insulation is also located in the crawlspace under the gym, lower level mechanical rooms, and concealed within a soffit that runs the length of the lower level.

The distribution piping located in the west portion of the school is fed from below, exposed in the lower level and therefore non-asbestos.

INSPECTION SUMMARY

Asbestos-Containing Flooring
A variety of floor coverings exists throughout the school. There is evidence of prior flooring abatement projects. Additionally, asbestos-containing floor tile has been overlaid with non-asbestos flooring in several areas. Given the variety of flooring types and layers, and for clarity, we have combined flooring types and layers in this report to identify locations that contain asbestos-containing floor coverings. Please refer to the associated survey drawings for more detailed layering information.

- Asbestos-containing vinyl floor tile and associated mastic is present throughout most of the west portion of the building, various east wing areas and various lower level areas. As discussed above, the asbestos-containing floor tile is overlaid with non-asbestos flooring in several areas.

Floor coverings located in the lower level and the east wing are applied to a concrete substrate. Those in the west portion of the building are applied to wood substrate.

Asbestos-Containing Roofing and Debris
Asbestos-containing roofing debris is present throughout the building attic spaces. The asbestos-containing roofing debris shows evidence that a prior roof tear-off project has occurred. It is unknown if all of the asbestos-containing roofing was properly removed during the roof tear off.

- The attic space throughout the building should be considered contaminated with asbestos-containing debris.

- Although the existing roofing materials are modern, it should be presumed that residual asbestos-containing roofing remains on the roof deck.

Other Asbestos-Containing Materials
The asbestos-containing TSI, flooring materials, and roofing debris discussed above make up the majority of the asbestos-containing building materials identified at the school. Other incidental materials include the following:

- An asbestos-containing electrical mounting board in present in the boiler room. The board is located inside an electrical cabinet.
- Joint compound throughout the school tested positive for asbestos. Additional analysis of the joint compound revealed that the wallboard systems contain less than one percent asbestos.
- The stainless steel sink located in the teacher's lounge has an undercoating that tested less than one percent asbestos.

Materials containing less than one percent asbestos do not meet the definition of asbestos-containing materials requiring abatement by a licensed asbestos abatement contractor; however, Oregon OSHA does have certain training and handing requirements for individuals impacting these materials.

Out Buildings

No asbestos-containing building materials were identified in the music cottage or the portable classrooms.

INSPECTION SUMMARY

LEAD-BASED PAINT

LEAD-CONTAINING PAINT SUMMARY

Paint-chip samples were collected from representative interior and exterior painted building components. These samples represent the major painted components of the school. The paint samples were submitted under chain of custody to R.J. Lee Group in Monroeville, Pennsylvania, for lead analysis by flame atomic absorption (FLAA).

The paint samples revealed relatively low concentrations of lead in paint with the highest concentration at 5,500 parts per million collected from the basement storage room.

Paint samples collected from the music cottage and the portable classrooms tested below the limit of detection for lead.

For reference, the Environmental Protection Agency (EPA) uses 5,000 ppm as the threshold limit for the definition of lead-based paint. However, lead in any concentration may become airborne above the OSHA Action Level during certain trigger activities. Lead-safe work practices should always be employed when impacting paint that contains lead in any concentration.

Please refer to the attached inventories and laboratory reports for specific sample locations and test results.

MERCURY VAPOR TUBES

Fluorescent light fixtures that utilize suspect PCB-containing ballasts are present throughout the school. The inspector disassembled representative light fixtures and found "No PCBs" labeling on the ballasts. Contractors removing light fixtures should ensure that all ballasts are consistent with those observed and are non-suspect for PCBs.

The fluorescent light fixtures also utilize mercury-containing lamps.

- Approximately 1,300 mercury-containing fluorescent lamps are present throughout the building. The lamps should be properly collected and recycled in conjunction with interior demolition.

PBS | Engineering + Environmental

Reynolds School District
Wilkes Elementary School

Asbestos-Containing Building Materials Abatement
Probable Abatement Cost Estimate

Project No. 23881.002 Phase 001
Prepared by: Rich Dufresne
Date Prepared: February 23, 2016

Item	Unit	Quantity	Unit Price (USD)	Amount (USD)
A. Mobilization, Permits & Fees	EA	1	$ 5,500.00	$ 5,500.00
B. Asbestos-Containing Material Abatement				
Mag Block Insulation on Boiler	SF	180	$ 20.00	$ 3,600.00
Mag Block Insulation on Tank	SF	96	$ 20.00	$ 1,920.00
Asbestos Pipe Insulatoin	LF	1,200	$ 12.00	$ 14,400.00
Hard Fitting on Fiberglass Insulaation	EA	250	$ 15.00	$ 3,750.00
Asbestos Roofing Debris (see note below)	SF	15000	$ 2.00	$ 30,000.00
Asbestos Vinyl Floor Tile/ Mastic	SF	12200	$ 3.00	$ 36,600.00
Electrical Mounting Board	EA	1	$ 50.00	$ 50.00
Sink Undercoating	EA	1	$ 50.00	$ 50.00
Subtotal Estimated Project Costs				**$95,870.00**
Contingency - 10%				$9,587.00
TOTAL PROBABLE COSTS				**$105,457.00**

Cost Estimate Assumptions:

1. Cost estimate does not include abatement design, monitoring, clearance air sampling or closeout
2. Line item above for asbestos-containing roofing debris removal is provided as an order-of-magnitude cost only. Actual abatement cost may vary greatly and is contingent on abatement design effort and acceptance of alternate removal method approval by the Oregon Department of Enviornmental Quality.

GENERAL NOTES

1. THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS.
2. ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT HAZARDOUS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWING.

ASBESTOS-CONTAINING MATERIAL NOTES

1. ASBESTOS-CONTAINING ROOFING DEBRIS IS PRESENT THROUGHOUT THE ATTIC INTERSTITIAL SPACES.
2. GYPSUM WALLBOARD WITH JOINT COMPOUND THROUGHOUT THE SCHOOL CONTAINS LESS THAN ONE PERCENT ASBESTOS.
3. ASBESTOS-CONTAINING PIPE INSULATION SHOWN IS FOR REFERENCE ONLY. EXACT LOCATIONS MAY VARY.
4. FLOOR COVERINGS SHOWN IN THE LOWER LEVEL AND THE EAST WING ARE APPLIED TO A CONCRETE SUBSTRATE. THOSE IN THE WEST PORTION OF THE BUILDING ARE APPLIED TO WOOD SUBSTRATE.

LEGEND

- ASBESTOS-CONTAINING FLOOR TILE AND ASSOCIATED MASTIC
- ASBESTOS-CONTAINING MAG BLOCK INSULATION
- ASBESTOS-CONTAINING HORIZONTAL PIPE RUN
- ASBESTOS-CONTAINING VERTICAL PIPE RUN
- (1) APPROXIMATE NUMBER AND LOCATION OF ASBESTOS-CONTAINING HARD FITTINGS ON FIBERGLASS
- * ASBESTOS-CONTAINING SINK UNDERCOATING
- [E] ASBESTOS-CONTAINING ELECTRICAL MOUNTING BOARD
- [CPT] ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH CARPET
- [PLY] ASBESTOS-CONTAINING VINYL FLOOR TILE IS OVERLAID WITH PLYWOOD AND/OR OTHER LAYERS OF FLOORING

ASBESTOS SAMPLE SYMBOLS

◇ 007 — DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

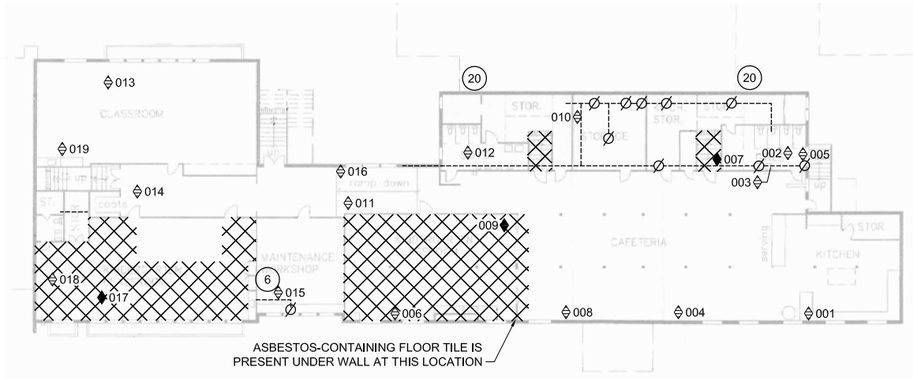
NOT TESTED	NEGATIVE -	POSITIVE +	
○	⊖	●	THERMAL SYSTEM INSULATION
□	▤	■	SURFACING MATERIAL
◇	◈	◆	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◈ 001	23881.002-0001	(-/-)	VINYL FLOOR TILE/MASTIC
◈ 002	23881.002-0002	(-)	LAY-IN CEILING TILE
◈ 003	23881.002-0003	(-/-)	WALL AND CEILING PLASTER
◈ 004	23881.002-0004	(-)	PAINT
◈ 005	23881.002-0005	(-)	PAINT
◈ 006	23881.002-0006	(-)	PAINT
◆ 007	23881.002-0007	(+/+)	VINYL FLOOR TILE/MASTIC
◈ 008	23881.002-0008	(-/-)	COVEBASE/MASTIC
◆ 009	23881.002-0009	(+/+)	VINYL FLOOR TILE/MASTIC
◈ 010	23881.002-0010	(-)	WALL AND CEILING PLASTER
◈ 011	23881.002-0011	(-/-)	POURED FLOORING
◈ 012	23881.002-0012	(-)	LAY-IN CEILING TILE
◈ 013	23881.002-0013	(-)	SEALANT
◈ 014	23881.002-0014	(-)	LAY-IN CEILING TILE
◈ 015	23881.002-0015	(-)	WALL AND CEILING PLASTER
◈ 016	23881.002-0016	(-/-)	COVEBASE/MASTIC
◆ 017	23881.002-0017	(+/+)	VINYL FLOOR TILE/MASTIC
◈ 018	23881.002-0018	(-/-)	MASTIC
◈ 019	23881.002-0019	(-)	MASTIC
◆ 020	23881.002-0020	(+/+)	VINYL FLOOR TILE/MASTIC (3)
◆ 021	23881.002-0021	(+/-)	VINYL FLOOR TILE/MASTIC (3)
◈ 022	23881.002-0022	(-)	VINYL FLOOR TILE/MASTIC (1)
◈ 023	23881.002-0023	(-/-)	VINYL FLOOR TILE/MASTIC (2)
◈ 024	23881.002-0024	(-/-)	VINYL FLOOR TILE/MASTIC (4)
◆ 025	23881.002-0025	(+/<1%/-/-)	VINYL FLOOR TILE/MASTIC (5)
◈ 026	23881.002-0026	(-/-/-)	LEVELING COMPOUND
◆ 027	23881.002-0027	(-/-/+/+/-)	SHEET FLOOR COVERING
◆ 028	23881.002-0028	(-/-/+/-/-)	VINYL FLOOR TILE/MASTIC (2)
◈ 029	23881.002-0029	(-)	VINYL FLOOR TILE/MASTIC (6)
◈ 030	23881.002-0030	(-/-)	SHEET FLOOR COVERING
◆ 031	23881.002-0031	(-/+)	VINYL FLOOR TILE/MASTIC (7)
◆ 032	23881.002-0032	(-/-/+)	VINYL FLOOR TILE/MASTIC (8)
◈ 033	23881.002-0033	(-/-/-)	VINYL FLOOR TILE/MASTIC (9)
◈ 034	23881.002-0034	(-/-)	VINYL FLOOR TILE/MASTIC (10)
◈ 035	23881.002-0035	(-/-)	VINYL FLOOR TILE/MASTIC (11)
◆ 036	23881.002-0036	(-/+)	VINYL FLOOR TILE/MASTIC (12)
◈ 037	23881.002-0037	(-/-)	COVEBASE/MASTIC
◈ 038	23881.002-0038	(-/-)	COVEBASE/MASTIC

INVENTORY OF ASBESTOS SAMPLES CONTINUED

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◈ 039	23881.002-0039	(-/-)	COVEBASE/MASTIC
◈ 040	23881.002-0040	(-)	WALL AND CEILING PLASTER
◆ 041	23881.002-0041	(+)	ELECTRICAL BOARD
◈ 042	23881.002-0042	(-)	LAY-IN CEILING TILE
◈ 043	23881.002-0043	(-/-)	MASTIC
◈ 044	23881.002-0044	(-)	WALL AND CEILING PLASTER
◆ 045	23881.002-0045	(<1%/+)	MATERIAL DEBRIS
◈ 046	23881.002-0046	(-)	WALL AND CEILING PLASTER
◈ 047	23881.002-0047	(-/-)	MASTIC
◇ 048	23881.002-0048	()	MATERIAL DEBRIS
◈ 049	23881.002-0049	(-/-)	WALL AND CEILING PLASTER
◈ 050	23881.002-0050	(-/-/-)	MASTIC
◇ 051	23881.002-0051	()	MATERIAL DEBRIS
◈ 052	23881.002-0052	(-/-)	MASTIC
◇ 053	23881.002-0053	()	MATERIAL DEBRIS
◈ 054	23881.002-0054	(-)	MASTIC
◈ 055	23881.002-0055	(-/-)	MASTIC
◈ 056	23881.002-0056	(-)	MASTIC
◆ 057	23881.002-0057	(+/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◆ 058	23881.002-0058	(+)	GYPSUM WALLBOARD/JOINT COMPOUND
◆ 059	23881.002-0059	(-/+)	MASTIC
◈ 060	23881.002-0060	(-/-/-)	MASTIC
◈ 061	23881.002-0061	(-)	LAY-IN CEILING TILE
◆ 062	23881.002-0062	(<1%)	SINK UNDERCOATING
PORTABLE SAMPLES NOT SHOWN ON DRAWING			
◈ 101	23881.002-0101	(-/-)	VINYL FLOOR TILE/MASTIC
◈ 102	23881.002-0102	(-/-)	VINYL FLOOR TILE/MASTIC
◈ 103	23881.002-0103	(-)	VINYL FLOOR TILE/MASTIC
◈ 104	23881.002-0104	(-/-)	VINYL FLOOR TILE/MASTIC
◈ 105	23881.002-0105	(-/-)	SHEET FLOOR COVERING
◈ 106	23881.002-0106	(-)	MASTIC
◈ 107	23881.002-0107	(-/-)	SHEET FLOOR COVERING
◈ 108	23881.002-0108	(-/-/-)	SHEET FLOOR COVERING
◈ 109	23881.002-0109	(-/-)	SHEET FLOOR COVERING
◈ 110	23881.002-0110	(-/-)	SHEET FLOOR COVERING
◈ 111	23881.002-0111	(-/-)	COVEBASE/MASTIC
◈ 112	23881.002-0112	(-/-)	COVEBASE/MASTIC
◈ 113	23881.002-0113	(-/-)	COVEBASE/MASTIC
◈ 114	23881.002-0114	(-/-)	GYPSUM WALLBOARD
◈ 115	23881.002-0115	(-)	GYPSUM WALLBOARD
◈ 116	23881.002-0116	(-)	GYPSUM WALLBOARD
◈ 117	23881.002-0117	(-)	GYPSUM WALLBOARD
◈ 118	23881.002-0118	(-)	GYPSUM WALLBOARD
▤ 119	23881.002-0119	(-)	TEXTURED CEILING MATERIAL
▤ 120	23881.002-0120	(-)	TEXTURED WALL MATERIAL
◈ 121	23881.002-0121	(-)	LAY-IN CEILING TILE
◈ 122	23881.002-0122	(-)	LAY-IN CEILING TILE
◈ 123	23881.002-0123	(-)	LAY-IN CEILING TILE
◈ 124	23881.002-0124	(-)	LAY-IN CEILING TILE
◈ 125	23881.002-0125	(-)	LAY-IN CEILING TILE
◈ 126	23881.002-0126	(-)	SINK UNDERCOATING
◈ 127	23881.002-0127	(-)	SINK UNDERCOATING
◈ 128	23881.002-0128	(-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◈ 129	23881.002-0129	(-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◈ 130	23881.002-0130	(-/-)	GYPSUM WALLBOARD/JOINT COMPOUND
◈ 131	23881.002-0131	(-/-/-)	GLUED-ON CEILING TILES



LOWER FLOOR PLAN

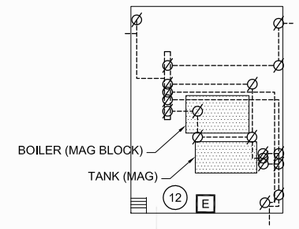
LEAD SAMPLE SYMBOLS

△ 1007 — DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
MATERIAL SYMBOL

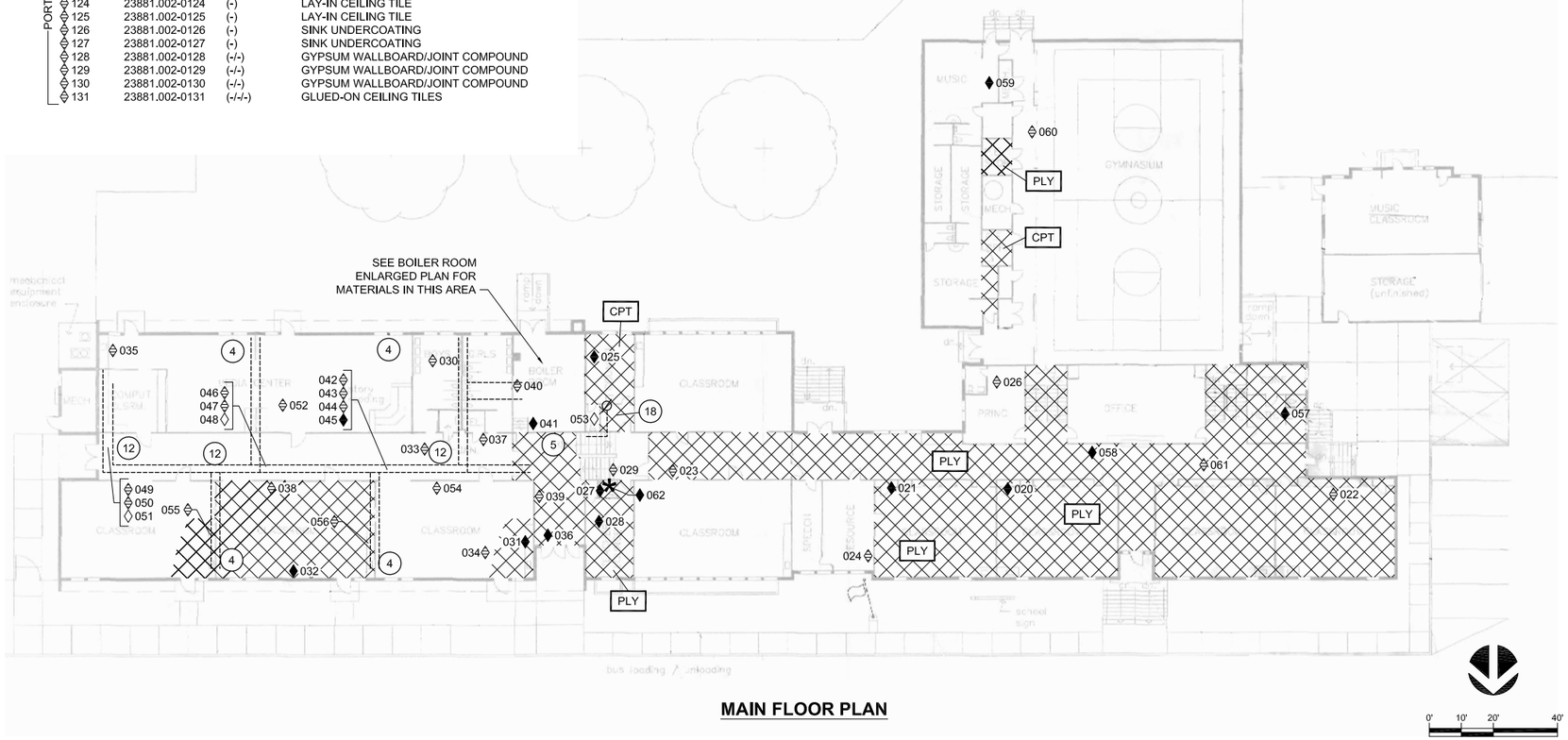
▲ LEAD DETECTED △ BELOW THE LIMIT OF DETECTION

INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1001	23881.002-1001	2500 ppm	PAINT BASEMENT CORRIDOR; WALL, PLASTER, WHITE
▲1002	23881.002-1002	5500 ppm	PAINT BASEMENT STORAGE; WALL, PLASTER, GREEN
△1003	23881.002-1003	<89 ppm	PAINT BASEMENT CAFETERIA; COLUMN, CONCRETE, WHITE
▲1004	23881.002-1004	2700 ppm	PAINT BASEMENT; WALL, PLASTER, WHITE
▲1005	23881.002-1005	1300 ppm	PAINT ON BOILER ROOM; WALL, PLASTER, SILVER
▲1006	23881.002-1006	510 ppm	PAINT ON BOILER ROOM; WALL, CONCRETE, TAN,
▲1007	23881.002-1007	210 ppm	PAINT ON GYMNASIUM; WALL, CMU, WHITE
▲1008	23881.002-1008	680 ppm	PAINT ON GYMNASIUM; WALL, GYPSUM, WHITE



BOILER ROOM ENLARGED FLOOR PLAN



MAIN FLOOR PLAN

0' 10' 20' 40'
APPROX. SCALE: 1" = 20'

PBS
Engineering + Environmental
4412 SW Corbett Ave
Portland, OR 97239
503.248.1939 Main
866.727.0140 Fax
www.pbsenv.com

WILKES ELEMENTARY
REYNOLDS SCHOOL DISTRICT
17020 NE WILKES ROAD
PORTLAND, OREGON

NO.	REVISION	BY	DATE	CHK

PROJECT:	23881.002
DRAWN:	DJ
CHECKED:	RD
DATE:	JANUARY 2016
DWG NO.	HM1
SHEET NO.	1 OF 1

L:\Projects\23000\23800s\23881.002_Rpt\Asbs\23881.002_HM1.dwg Feb 24, 2016 02:19pm dsh

Code	Material	Location	Results	Lab
23881.002-0001	Vinyl Floor Tile/Mastic	Basement; kitchen, 12" white		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, orange	No Asbestos Detected	
23881.002-0002	Lay-in Ceiling Tile	Basement; girls restroom, 2'x4' pin perf		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.002-0003	Wall and Ceiling Plaster	Basement; girls restroom, ceiling plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, white with paint, green	No Asbestos Detected	
	Layer 2	coarse cementitious material, white	No Asbestos Detected	
23881.002-0004	Paint	Basement; exterior wall, textured wall paint		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	thick paint, off-white with powder, off-white	No Asbestos Detected	
23881.002-0005	Paint	Basement; textured wall paint		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	thick paint, off-white/green with powder, off-white	No Asbestos Detected	
23881.002-0006	Paint	Basement; textured wall paint		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	thick paint, off-white with powder, off-white/gray	No Asbestos Detected	
23881.002-0007	Vinyl Floor Tile/Mastic	Basement; stairs, 9" gray with black mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, gray	2% Chrysotile	
	Layer 2	mastic, black	3% Chrysotile	
23881.002-0008	Covebase/Mastic	Basement; cafeteria, 4" black		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, black	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
23881.002-0009	Vinyl Floor Tile/Mastic	Basement; kindergarten, lower layer		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, dark brown	6% Chrysotile	
	Layer 2	mastic, black	3% Chrysotile	

Code	Material	Location	Results	Lab
23881.002-0010	Wall and Ceiling Plaster	Basement; storage, wall plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	coarse cementitious material, gray	No Asbestos Detected	
23881.002-0011	Poured Flooring	Basement; corridor ramp, flooring under ramp		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	thin vinyl, red	No Asbestos Detected	
	Layer 2	fibrous backing, black	No Asbestos Detected	
23881.002-0012	Lay-in Ceiling Tile	Basement; boys restrooms, 2'x4' pin perf		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.002-0013	Sealant	Basement; kindergarten, HVAC sealant		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, gray	No Asbestos Detected	
23881.002-0014	Lay-in Ceiling Tile	Basement; corridor, 2'x4' pin perf		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.002-0015	Wall and Ceiling Plaster	Basement; custodial, ceiling plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular compact powder, off-white	No Asbestos Detected	
23881.002-0016	Covebase/Mastic	Basement; corridor, 4" black		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, black	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
23881.002-0017	Vinyl Floor Tile/Mastic	Basement; classroom, 12" brown		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, tan	2% Chrysotile	
	Layer 2	mastic, black	2% Chrysotile	
23881.002-0018	Mastic	Basement; classroom, ceiling tile mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, orange	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.002-0019	Mastic	Basement; kindergarten, textured wall mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	thick paint, off-white with granular powder, off-white	No Asbestos Detected	
23881.002-0020	Vinyl Floor Tile/Mastic (3)	SPED classroom; gray with black mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, gray with paint, white	7% Chrysotile	
	Layer 2	mastic, black	2% Chrysotile	
23881.002-0021	Vinyl Floor Tile/Mastic (3)	First grade classroom; gray with black mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, gray	6% Chrysotile	
	Layer 2	fibrous backing, black	No Asbestos Detected	
23881.002-0022	Vinyl Floor Tile/Mastic (1)	Title 1 classroom; 12" tan		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
23881.002-0023	Vinyl Floor Tile/Mastic (2)	Corridor; 12" white		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
23881.002-0024	Vinyl Floor Tile/Mastic (4)	ELD classroom; 12" beige		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, gray	No Asbestos Detected	
	Layer 2	mastic, orange	No Asbestos Detected	
23881.002-0025	Vinyl Floor Tile/Mastic (5)	Health; 9" green		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, gray	8% Chrysotile	
	Layer 2	mastic, black	<1% Chrysotile	
	Layer 3	fibrous backing, black	No Asbestos Detected	
	Layer 4	compact powder, gray	No Asbestos Detected	
23881.002-0026	Leveling Compound	Principal; gray cement under carpet		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
	Layer 3	coarse cementitious material, off-white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.002-0027	Sheet Floor Covering	Staff restroom; brown aggregate		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, off-white	No Asbestos Detected	
	Layer 2	fibrous backing, tan	No Asbestos Detected	
	Layer 3	vinyl tile, gray	8% Chrysotile	
	Layer 4	mastic, black	3% Chrysotile	
	Layer 5	fibrous backing, black	No Asbestos Detected	
23881.002-0028	Vinyl Floor Tile/Mastic (2)	Teachers room; 12" white		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
	Layer 3	vinyl tile, gray	8% Chrysotile	
	Layer 4	fibrous backing, black	No Asbestos Detected	
	Layer 5	foam material, white	No Asbestos Detected	
23881.002-0029	Vinyl Floor Tile/Mastic (6)	Corridor at stairs; 12" dark tan		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white	No Asbestos Detected	
23881.002-0030	Sheet Floor Covering	Boys east restroom; white aggregate		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, white	No Asbestos Detected	
	Layer 2	brittle backing, tan	No Asbestos Detected	
23881.002-0031	Vinyl Floor Tile/Mastic (7)	Second grade classroom; 12" yellow		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, yellow	No Asbestos Detected	
	Layer 2	mastic, black	3% Chrysotile	
23881.002-0032	Vinyl Floor Tile/Mastic (8)	Second grade classroom; 12" light yellow		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white	No Asbestos Detected	
	Layer 2	vinyl tile, yellow	No Asbestos Detected	
	Layer 3	mastic, colorless	No Asbestos Detected	
	Layer 4	vinyl tile, gray	7% Chrysotile	
23881.002-0033	Vinyl Floor Tile/Mastic (9)	East corridor; 12" gray		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, orange	No Asbestos Detected	
	Layer 3	compact powder, gray	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.002-0034	Vinyl Floor Tile/Mastic (10)	Second grade classroom; 12" white		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, white	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
23881.002-0035	Vinyl Floor Tile/Mastic (11)	Media center; 12" blue		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, blue-gray	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
23881.002-0036	Vinyl Floor Tile/Mastic (12)	East corridor; 12" white		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl tile, off-white	No Asbestos Detected	
	Layer 2	mastic, black	2% Chrysotile	
23881.002-0037	Covebase/Mastic	East corridor; 4" black		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, gray	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
23881.002-0038	Covebase/Mastic	Second grade classroom; 4" black		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, brown	No Asbestos Detected	
	Layer 2	mastic, light brown	No Asbestos Detected	
23881.002-0039	Covebase/Mastic	Corridor; 4" black		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, black	No Asbestos Detected	
	Layer 2	compact powder, white	No Asbestos Detected	
23881.002-0040	Wall and Ceiling Plaster	Boiler room; wall plaster		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact granular material, white with paint, light blue	No Asbestos Detected	
23881.002-0041	Electrical Board	Boiler room; electrical mounting board		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous tile, black	18% Chrysotile	
23881.002-0042	Lay-in Ceiling Tile	Corridor; 2'x4' random fissure pin perf		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.002-0043	Mastic		Corridor; above ceiling, ceiling tile mastic dots		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, brown	No Asbestos Detected	
		Layer 2	fibers, yellow	No Asbestos Detected	
23881.002-0044	Wall and Ceiling Plaster		Corridor; above ceiling, ceiling plaster		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	granular powder, white	No Asbestos Detected	
23881.002-0045	Material Debris		Corridor; above ceiling, in attic, roofing debris		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose tar particulate, black	<1% Chrysotile	
		Layer 2	fibrous tar, black	25% Chrysotile	
23881.002-0046	Wall and Ceiling Plaster		Corridor; above ceiling, ceiling plaster		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compact granular powder, white	No Asbestos Detected	
23881.002-0047	Mastic		Corridor; above ceiling, ceiling tile mastic dots		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose fibrous material, yellow	No Asbestos Detected	
		Layer 2	mastic, brown	No Asbestos Detected	
23881.002-0048	Material Debris		Corridor; above ceiling, roofing debris		Lab Cor
		Layer:	**Description:**	**Analysis:**	
	Comments:	Sample archived; not analyzed.			
23881.002-0049	Wall and Ceiling Plaster		Corridor; above ceiling, ceiling plaster		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	granular compact powder, off-white	No Asbestos Detected	
		Layer 2	fibrous backing, brown	No Asbestos Detected	
23881.002-0050	Mastic		Corridor; above ceiling, ceiling tile mastic dots		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose fibrous material, yellow	No Asbestos Detected	
		Layer 2	thick mastic, brown	No Asbestos Detected	
		Layer 3	fibrous backing, brown	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.002-0051	Material Debris		Corridor; above ceiling, roof debris		Lab Cor
		Layer:	**Description:**	**Analysis:**	
	Comments:	Sample archived; not analyzed.			
23881.002-0052	Mastic		Library; ceiling tile mastic dots		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose fibrous material, yellow	No Asbestos Detected	
		Layer 2	mastic, brown	No Asbestos Detected	
23881.002-0053	Material Debris		Counseling; in attic, roofing debris		Lab Cor
		Layer:	**Description:**	**Analysis:**	
	Comments:	Sample archived; not analyzed.			
23881.002-0054	Mastic		Classroom; yellow bulletin board mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, tan	No Asbestos Detected	
23881.002-0055	Mastic		Classroom; yellow bulletin board mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, tan with fibrous backing, gray	No Asbestos Detected	
		Layer 2	compressed fibers, brown	No Asbestos Detected	
23881.002-0056	Mastic		Classroom; yellow bulletin board mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	mastic, tan	No Asbestos Detected	
23881.002-0057	Gypsum Wallboard/Joint Compound		Gymnasium; wallboard with joint compound		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, off-white	3% Chrysotile	
		Layer 2	compact chalky material with paper, white	No Asbestos Detected	
	Comments:	Total percent asbestos: 6%			
23881.002-0058	Gypsum Wallboard/Joint Compound		Office; wallboard with joint compound		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	paint, white with fine compact powder, off-white	5% Chrysotile	
	Comments:	Total percent asbestos: 8.75%			

Code	Material		Location	Results	Lab
23881.002-0059	Mastic		Gymnasium; ceiling tile mastic dots		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	thick mastic, brown	No Asbestos Detected	
		Layer 2	fine compact powder, off-white	2% Chrysotile	
23881.002-0060	Mastic		Nurse; ceiling tile mastic dots		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibers, light brown	No Asbestos Detected	
		Layer 2	mastic, brown	No Asbestos Detected	
		Layer 3	compressed fibers, dark brown	No Asbestos Detected	
23881.002-0061	Lay-in Ceiling Tile		Corridor; 2'x4' random fissure pin perf		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibers, gray with paint, white	No Asbestos Detected	
23881.002-0062	Sink Undercoating		Teachers' room; black sink undercoating		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose powdery mastic, black	<1% Chrysotile	
23881.002-0101	Vinyl Floor Tile/Mastic		Portable 1; 12"x12" white with colored streaks, brown mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl tile, white	No Asbestos Detected	
		Layer 2	mastic, gray/tan	No Asbestos Detected	
23881.002-0102	Vinyl Floor Tile/Mastic		Portable 4; 12"x12" white with yellow mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl tile, white	No Asbestos Detected	
		Layer 2	mastic, orange	No Asbestos Detected	
23881.002-0103	Vinyl Floor Tile/Mastic		Portable 6; 12"x12" white with gray streaks, yellow mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl tile, white	No Asbestos Detected	
23881.002-0104	Vinyl Floor Tile/Mastic		Portable 7; 12"x12" gray with yellow mastic		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	vinyl tile, off-white	No Asbestos Detected	
		Layer 2	mastic, orange	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.002-0105	Sheet Floor Covering	Portable 1; white sheet floor with tile pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, white	No Asbestos Detected	
	Layer 2	mastic, orange	No Asbestos Detected	
23881.002-0106	Mastic	Portable 3; yellow carpet mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	granular mastic, gray/orange	No Asbestos Detected	
23881.002-0107	Sheet Floor Covering	Portable 3; white sheet flooring		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, off-white	No Asbestos Detected	
	Layer 2	fibrous backing, off-white	No Asbestos Detected	
23881.002-0108	Sheet Floor Covering	Portable 3 and 4; bathroom, gray sheet flooring with color speckes		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, gray	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
	Layer 3	mastic, tan	No Asbestos Detected	
23881.002-0109	Sheet Floor Covering	Portable 5 and 6; tan grainy sheet flooring		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, gray	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
23881.002-0110	Sheet Floor Covering	Portable 7; bathroom, white sheet floor with small pattern		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	vinyl sheet, white	No Asbestos Detected	
	Layer 2	fibrous backing, gray	No Asbestos Detected	
23881.002-0111	Covebase/Mastic	Portable 3 and 4; bathroom, 4" gray with yellow mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, gray	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	
23881.002-0112	Covebase/Mastic	Portable 6; 4" black with yellow mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, black	No Asbestos Detected	
	Layer 2	mastic, yellow	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.002-0113	Covebase/Mastic	Portable 7; 4" gray with white mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	rubbery material, gray	No Asbestos Detected	
	Layer 2	mastic, off-white	No Asbestos Detected	
23881.002-0114	Gypsum Wallboard	Portable 1; pink gypsum wallpaper		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	loose powder, pink	No Asbestos Detected	
	Layer 2	fibrous backing, tan	No Asbestos Detected	
23881.002-0115	Gypsum Wallboard	Portable 4; pink gypsum wallpaper		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact chalky material with paper, light pink	No Asbestos Detected	
23881.002-0116	Gypsum Wallboard	Portable 5; pink gypsum wallpaper		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact chalky material with paper, light pink	No Asbestos Detected	
23881.002-0117	Gypsum Wallboard	Portable 6; pink gypsum wallpaper		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact chalky material with paper, light pink	No Asbestos Detected	
23881.002-0118	Gypsum Wallboard	Portable 7; pink gypsum wallpaper		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compact chalky material with paper, off-white	No Asbestos Detected	
23881.002-0119	Textured Ceiling Material	Portable 3 and 4; troweled-on ceiling texture		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, white with paint, white	No Asbestos Detected	
23881.002-0120	Textured Wall Material	Portable 5 and 6; troweled-on wall texture		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, white with paint, white	No Asbestos Detected	
23881.002-0121	Lay-in Ceiling Tile	Portable 1; 2'x4' white with short fissures		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	

Code	Material		Location	Results	Lab
23881.002-0122	Lay-in Ceiling Tile		Portable 3; 2'x4' white with long fissures		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.002-0123	Lay-in Ceiling Tile		Portable 4; 2'x4' white with short fissures		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.002-0124	Lay-in Ceiling Tile		Portable 6; 2'x4' white with long fissures		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.002-0125	Lay-in Ceiling Tile		Portable 8; 2'x4' white with short fissures		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	compressed fibrous material, tan with paint, white	No Asbestos Detected	
23881.002-0126	Sink Undercoating		Portable 3; gray sink undercoating		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	flaky material, gray	No Asbestos Detected	
23881.002-0127	Sink Undercoating		Portable 6; white sink undercoating		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	loose powder, off-white	No Asbestos Detected	
23881.002-0128	Gypsum Wallboard/Joint Compound		Music cottage; storage, gypsum/joint compound wall system		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, off-white	No Asbestos Detected	
		Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.002-0129	Gypsum Wallboard/Joint Compound		Music cottage; storage, gypsum/joint compound wall system		Lab Cor
		Layer:	**Description:**	**Analysis:**	
		Layer 1	fine compact powder, white	No Asbestos Detected	
		Layer 2	compact chalky material with paper, white	No Asbestos Detected	

Code	Material	Location	Results	Lab
23881.002-0130	Gypsum Wallboard/Joint Compound	Music cottage; storage, gypsum/joint compound wall system		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	fine compact powder, off-white	No Asbestos Detected	
	Layer 2	compact chalky material with paper, white	No Asbestos Detected	
23881.002-0131	Glued-on Ceiling Tiles	Music cottage; main room, white 12"x12" tile, brown mastic		Lab Cor
	Layer:	**Description:**	**Analysis:**	
	Layer 1	compressed fibers, brown with paint, white	No Asbestos Detected	
	Layer 2	mastic, brown	No Asbestos Detected	
	Layer 3	compact powder, tan with paper, brown	No Asbestos Detected	

Code	Material	Analysis	Location	Lab
PAINT				
LB23881.002-1001	Paint	2500 ppm	Basement corridor; wall, plaster, white, intact condition	R.J. Lee Group
LB23881.002-1002	Paint	5500 ppm	Basement storage; wall, plaster, green, intact condition	R.J. Lee Group
LB23881.002-1003	Paint	<89 ppm	Basement cafeteria; column, concrete, white, intact condition	R.J. Lee Group
LB23881.002-1004	Paint	2700 ppm	Basement; wall, plaster, white, intact condition	R.J. Lee Group
LB23881.002-1005	Paint	1300 ppm	Boiler room; wall, plaster, silver, peeling condition	R.J. Lee Group
LB23881.002-1006	Paint	510 ppm	Boiler room; wall, concrete, tan, peeling condition	R.J. Lee Group
LB23881.002-1007	Paint	210 ppm	Gymnasium; wall, CMU, white, intact condition	R.J. Lee Group
LB23881.002-1008	Paint	680 ppm	Gymnasium; wall, gypsum, white, fair condition	R.J. Lee Group
LB23881.002-1100	Paint	<200 ppm	Portable 4; siding, wood, white, good condition	R.J. Lee Group
LB23881.002-1101	Paint	<200 ppm	Portable 6; door, metal, blue, good condition	R.J. Lee Group
LB23881.002-1102	Paint	<150 ppm	Portable 8; siding, wood, white, good condition	R.J. Lee Group
LB23881.002-1103	Paint	<1200 ppm	Portable 8; door, metal, green, good condition	R.J. Lee Group
LB23881.002-1104	Paint	<110 ppm	Music cottage; door frame, wood, green, poor condition	R.J. Lee Group
LB23881.002-1105	Paint	<170 ppm	Music cottage; siding, wood, white, good condition	R.J. Lee Group

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Client: PBS Engineering and Environmental
4412 SW Corbett Avenue
Portland, OR 97239

Report Number: 153655R01
Report Date: 01/04/2016

P.O. No: n/a

Job Number: **153655**
Project Name:
Project Number: 23881.002 Phase 0001
Project Notes:

Client Sample ID: **23881.002-0001** **Sample ID:** S1 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl tile, white	99 %	-	-	-			**NAD**
Layer 02							
mastic, orange	1 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	3 %	-	-	-	-	97 %

Client Sample ID: **23881.002-0002** **Sample ID:** S2 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compressed fibrous material, tan with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	10 %	65 %	-	-	-	-	15 %
						Perlite	10 %

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BULK SAMPLE ASBESTOS ANALYSIS

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0003 **Sample ID:** S3 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, white with paint, green	90 %	-	-	-	**NAD**
Layer 02					
coarse cementitious material, white	10 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0004 **Sample ID:** S4 **Date Analyzed:** 12/31/2015
Client Sample Description: Progressive Analysis Group: 1 **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
thick paint, off-white with powder, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0005 **Sample ID:** S5 **Date Analyzed:** 12/31/2015
Client Sample Description: Progressive Analysis Group: 1 **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
thick paint, off-white/green with powder, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0006 **Sample ID:** S6 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
thick paint, off-white with powder, off-white/gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0007 **Sample ID:** S7 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, gray	97 %	2 %	-	-	**2 %**
Layer 02					
mastic, black	3 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	98 %
Layer 02	-	-	-	-	-	-	97 %

Client Sample ID: 23881.002-0008 **Sample ID:** S8 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, black	97 %	-	-	-	**NAD**
Layer 02					
mastic, brown	3 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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BULK SAMPLE ASBESTOS ANALYSIS

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0009 **Sample ID:** S9 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, dark brown	99 %	6 %	-	-	**6 %**
Layer 02					
mastic, black	1 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	94 %
Layer 02	-	-	-	-	-	97 %

Client Sample ID: 23881.002-0010 **Sample ID:** S10 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
coarse cementitious material, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	3 %	-	-	-	97 %

Client Sample ID: 23881.002-0011 **Sample ID:** S11 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
thin vinyl, red	10 %	-	-	-	**NAD**
Layer 02					
fibrous backing, black	90 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	6 %	-	-	-	94 %
Layer 02	-	65 %	-	-	-	35 %

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BULK SAMPLE ASBESTOS ANALYSIS

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0012 **Sample ID:** S12 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibrous material, tan with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		
	12 %	65 %	-	-	-	-	Matrix 8 %
						Perlite	15 %

Client Sample ID: 23881.002-0013 **Sample ID:** S13 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
rubbery material, gray	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		
	-	-	-	-	-	-	Matrix 100 %

Client Sample ID: 23881.002-0014 **Sample ID:** S14 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibrous material, tan with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		
	15 %	65 %	-	-	-	-	Matrix 5 %
						Perlite	15 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0015 **Sample ID:** S15 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular compact powder, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0016 **Sample ID:** S16 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, black	90 %	-	-	-	**NAD**
Layer 02					
mastic, brown	10 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0017 **Sample ID:** S17 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, tan	98 %	2 %	-	-	**2 %**
Layer 02					
mastic, black	2 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	98 %
Layer 02	-	-	-	-	-	98 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0018 **Sample ID:** S18 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compressed fibers, orange	50 %	-	-	-	**NAD**
Layer 02					
mastic, brown	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	100 %	-	-	-	0 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0019 **Sample ID:** S19 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
thick paint, off-white with granular powder, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0020 **Sample ID:** S20 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, gray with paint, white	99 %	7 %	-	-	**7 %**
Layer 02					
mastic, black	1 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	-	-	-	93 %
Layer 02	-	-	-	-	-	98 %

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0021 **Sample ID:** S21 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, gray	60 %	6 %	-	-	**6 %**
Layer 02					
fibrous backing, black	40 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	94 %
Layer 02	-	65 %	-	-	-	-	35 %

Client Sample ID: 23881.002-0022 **Sample ID:** S22 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
vinyl tile, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0023 **Sample ID:** S23 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, white	99 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	1 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	5 %	-	-	-	-	95 %

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Asbestos and Environmental Analysis

Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0024 **Sample ID:** S24 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, gray	95 %	-	-	-	**NAD**
Layer 02					
mastic, orange	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	4 %	-	-	-	-	96 %

Client Sample ID: 23881.002-0025 **Sample ID:** S25 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, gray	50 %	8 %	-	-	**8 %**
Layer 02					
mastic, black	1 %	Trace	-	-	**< 1 %**
Layer 03					
fibrous backing, black	15 %	-	-	-	**NAD**
Layer 04					
compact powder, gray	34 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	92 %
Layer 02	-	4 %	-	-	-	-	96 %
Layer 03	-	65 %	-	-	-	-	35 %
Layer 04	-	8 %	-	-	-	-	92 %

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0026 **Sample ID:** S26 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white	90 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	2 %	-	-	-	**NAD**
Layer 03					
coarse cementitious material, off-white	8 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0027 **Sample ID:** S27 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, off-white	25 %	-	-	-	**NAD**
Layer 02					
fibrous backing, tan	25 %	-	-	-	**NAD**
Layer 03					
vinyl tile, gray	35 %	8 %	-	-	**8 %**
Layer 04					
mastic, black	1 %	3 %	-	-	**3 %**
Layer 05					
fibrous backing, black	14 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	5 %	35 %	-	15 %	-	-	45 %
Layer 03	-	-	-	-	-	-	92 %
Layer 04	-	-	-	-	-	-	97 %
Layer 05	-	65 %	-	-	-	-	35 %

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Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0028 **Sample ID:** S28 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, white	50 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	5 %	-	-	-	**NAD**
Layer 03					
vinyl tile, gray	25 %	8 %	-	-	**8 %**
Layer 04					
fibrous backing, black	8 %	-	-	-	**NAD**
Layer 05					
foam material, white	12 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %
Layer 03	-	-	-	-	-	-	92 %
Layer 04	-	65 %	-	-	-	-	35 %
Layer 05	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0029 **Sample ID:** S29 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
vinyl tile, off-white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

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Client Sample ID: 23881.002-0030 **Sample ID:** S30 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl sheet, white	50 %	-	-	-	**NAD**
Layer 02					
brittle backing, tan	50 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

Client Sample ID: 23881.002-0031 **Sample ID:** S31 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, yellow	98 %	-	-	-	**NAD**
Layer 02					
mastic, black	2 %	3 %	-	-	**3 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	96 %

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Asbestos and Environmental Analysis

Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0032 **Sample ID:** S32 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, off-white	40 %	-	-	-	**NAD**
Layer 02					
vinyl tile, yellow	35 %	-	-	-	**NAD**
Layer 03					
mastic, colorless	2 %	-	-	-	**NAD**
Layer 04					
vinyl tile, gray	23 %	7 %	-	-	**7 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	6 %	-	-	-	-	94 %
Layer 04	-	-	-	-	-	-	93 %

Client Sample ID: 23881.002-0033 **Sample ID:** S33 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, white	85 %	-	-	-	**NAD**
Layer 02					
mastic, orange	1 %	-	-	-	**NAD**
Layer 03					
compact powder, gray	14 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %
Layer 03	-	2 %	-	-	-	-	98 %

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Report Date: 01/04/2016

Client Sample ID: 23881.002-0034 **Sample ID:** S34 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, white	95 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	5 %	-	-	93 %

Client Sample ID: 23881.002-0035 **Sample ID:** S35 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, blue-gray	99 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	1 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	2 %	-	-	-	-	98 %

Client Sample ID: 23881.002-0036 **Sample ID:** S36 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
vinyl tile, off-white	99 %	-	-	-	**NAD**
Layer 02					
mastic, black	1 %	2 %	-	-	**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	98 %

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Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0037 **Sample ID:** S37 **Date Analyzed:** 01/04/2016
Client Sample Description: Progressive Analysis Group: 2 **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, gray	95 %	-	-	-	**NAD**
Layer 02					
mastic, yellow	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %

Client Sample ID: 23881.002-0038 **Sample ID:** S38 **Date Analyzed:** 01/04/2016
Client Sample Description: Progressive Analysis Group: 2 **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, brown	95 %	-	-	-	**NAD**
Layer 02					
mastic, light brown	5 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0039 **Sample ID:** S39 **Date Analyzed:** 01/04/2016
Client Sample Description: Progressive Analysis Group: 2 **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
rubbery material, black	97 %	-	-	-	**NAD**
Layer 02					
compact powder, white	3 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0040 **Sample ID:** S40 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact granular material, white with paint, light blue	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0041 **Sample ID:** S41 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibrous tile, black	100 %	18 %	-	-	**18 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	82 %

Client Sample ID: 23881.002-0042 **Sample ID:** S42 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibrous material, tan with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		
	15 %	45 %	12 %	-	-	-	Matrix 13 %
						Perlite	15 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0043 **Sample ID:** S43 **Date Analyzed:** 01/04/2016
Client Sample Description: Progressive Analysis Group: 3 **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, brown	98 %	-	-	-	**NAD**
Layer 02					
fibers, yellow	2 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	2 %	-	-	-	-	-	98 %
Layer 02	100 %	-	-	-	-	-	0 %

Client Sample ID: 23881.002-0044 **Sample ID:** S44 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
granular powder, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0045 **Sample ID:** S45 **Date Analyzed:** 01/04/2016
Client Sample Description: Progressive Analysis Group: 4 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
loose tar particulate, black	95 %	Trace	-	-	**< 1 %**
Layer 02					
fibrous tar, black	5 %	25 %	-	-	**25 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	2 %	4 %	-	-	-	-	94 %
Layer 02	-	-	-	-	-	-	75 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0046 **Sample ID:** S46 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compact granular powder, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0047 **Sample ID:** S47 **Date Analyzed:** 01/04/2016
Client Sample Description: Progressive Analysis Group: 3 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
loose fibrous material, yellow	20 %	-	-	-	**NAD**
Layer 02					
mastic, brown	80 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	100 %	-	-	-	0 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0048 **Sample ID:** S48 **Date Analyzed:** 01/04/2016
Client Sample Description: Progressive Analysis Group: 4 **Analyst:** Ryan Brown

Comments: Sample archived; not analyzed per request.

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Report Date: 01/04/2016

Client Sample ID: 23881.002-0049 **Sample ID:** S49 **Date Analyzed:** 01/04/2016
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
granular compact powder, off-white	97 %	-	-	-			**NAD**
Layer 02							
fibrous backing, brown	3 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	90 %	-	-	-	-	10 %

Client Sample ID: 23881.002-0050 **Sample ID:** S50 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
loose fibrous material, yellow	8 %	-	-	-			**NAD**
Layer 02							
thick mastic, brown	90 %	-	-	-			**NAD**
Layer 03							
fibrous backing, brown	2 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	100 %	-	-	-	0 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	100 %	-	-	-	-	0 %

Client Sample ID: 23881.002-0051 **Sample ID:** S51 **Date Analyzed:** 12/31/2015
Client Sample Description: Progressive Analysis Group: 4 **Analyst:** Ryan Brown

Comments: Sample archived; not analyzed per request.

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0052 **Sample ID:** S52 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
loose fibrous material, yellow	15 %	-	-	-	**NAD**
Layer 02					
mastic, brown	85 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
Layer 01	-	-	100 %	-	-	0 %
Layer 02	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0053 **Sample ID:** S53 **Date Analyzed:** 12/31/2015
Client Sample Description: Progressive Analysis Group: 4 **Analyst:** Ryan Brown
Comments: Sample archived; not analyzed per request.

Client Sample ID: 23881.002-0054 **Sample ID:** S54 **Date Analyzed:** 12/31/2015
Client Sample Description: Progressive Analysis Group: 5 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other	Matrix
	-	-	-	-	-	100 %

NVLAP LAB CODE 200741-0

Lab/Cor Portland, Inc.
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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0055 **Sample ID:** S55 **Date Analyzed:** 12/31/2015
Client Sample Description: Progressive Analysis Group: 5 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
mastic, tan with fibrous backing, gray	35 %	-	-	-	**NAD**
Layer 02					
compressed fibers, brown	65 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	5 %	-	-	-	-	95 %
Layer 02	-	100 %	-	-	-	-	0 %

Client Sample ID: 23881.002-0056 **Sample ID:** S56 **Date Analyzed:** 12/31/2015
Client Sample Description: Progressive Analysis Group: 5 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
mastic, tan	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0057 **Sample ID:** S57 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
fine compact powder, off-white	15 %	3 %	-	-	**3 %**
Layer 02					
compact chalky material with paper, white	85 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	97 %
Layer 02	-	2 %	-	-	-	-	98 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0058 **Sample ID:** S58 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
paint, white with fine compact powder, off-white	100 %	5 %	-	-			**5 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
	-	-	-	-		-	-	95 %

Client Sample ID: 23881.002-0059 **Sample ID:** S59 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
thick mastic, brown	99 %	-	-	-			**NAD**
Layer 02							
fine compact powder, off-white	1 %	2 %	-	-			**2 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic		Other		Matrix
Layer 01	-	-	-	-	Wollastonite	3 %	-	97 %
Layer 02	-	-	-	-		-	-	98 %

Comments: Insufficient fine compact powder available for further analysis. If additional analysis is needed, more material will need to be submitted.

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

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Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0060 **Sample ID:** S60 **Date Analyzed:** 12/31/2015
Client Sample Description: Progressive Analysis Group: 3 **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Layer 01					
compressed fibers, light brown	20 %	-	-	-	**NAD**
Layer 02					
mastic, brown	60 %	-	-	-	**NAD**
Layer 03					
compressed fibers, dark brown	20 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	100 %	-	-	-	-	0 %
Layer 02	-	-	-	-	-	-	100 %
Layer 03	-	100 %	-	-	-	-	0 %

Client Sample ID: 23881.002-0061 **Sample ID:** S61 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
compressed fibers, gray with paint, white	100 %	-	-	-	**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other			Matrix
	-	35 %	40 %	-	-	-		20 %
							Perlite	5 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 153655

Report Number: 153655R01
Report Date: 01/04/2016

Client Sample ID: 23881.002-0062 **Sample ID:** S62 **Date Analyzed:** 12/31/2015
Client Sample Description: **Analyst:** Ryan Brown

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite	Percent Asbestos:
Homogeneous					
loose powdery mastic, black	100 %	Trace	-	-	**< 1 %**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart E, Appendix A, PLM.

Layered samples are considered non-homogeneous."Misc" is miscellaneous. "NAD" is No Asbestos Detected.
Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
Small diameter fibers such as those found in vinyl floor tiles, may not be detected by PLM.
Asbestos detection interferences may result from material binders.
Qualitative and quantitative TEM analysis may be recommended for difficult samples.
Quantitative analysis by PLM point count or TEM is recommended for samples testing at < or = to 1% asbestos.
The following estimate of error for this method by visual estimation of asbestos percent are as follows:
1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst.

Reviewed by:

X _____

Ryan Brown
Analyst

NVLAP LAB CODE 200741-0

PBS | Engineering + Environmental

153055 p.1/4

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23881.002 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: December 24, 2015

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

JAMES BLANCO
Name 11:58

Authorized Signature 12/24/15 **Date**

RECEIVER

Date Received: 12/24/15 12:00pm

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Hillarie Sales
Name

Authorized Signature 12/24/15 **Date**

Sender's ID No.	Brief Description	Receiver's ID No.
23881.002-0001		
23881.002-0002		
23881.002-0003		
23881.002-0004 }	**Progressive Analysis Group: 1**	
23881.002-0005 }	" 1	
23881.002-0006		
23881.002-0007		
23881.002-0008		
23881.002-0009		
23881.002-0010		
23881.002-0011		
23881.002-0012		
23881.002-0013		
23881.002-0014		

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TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.002-0015		
23881.002-0016		
23881.002-0017		
23881.002-0018		
23881.002-0019		
23881.002-0020		
23881.002-0021		
23881.002-0022		
23881.002-0023		
23881.002-0024		
23881.002-0025		
23881.002-0026		
23881.002-0027		
23881.002-0028		
23881.002-0029		
23881.002-0030		
23881.002-0031		
23881.002-0032		
23881.002-0033		
23881.002-0034		
23881.002-0035		
23881.002-0036		
23881.002-0037 }	**Progressive Analysis Group: 2**	
23881.002-0038 }	" **2**	
23881.002-0039 }	" **2**	
23881.002-0040		

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.002-0041		
23881.002-0042		
23881.002-0043 }	**Progressive Analysis Group: 3**	
23881.002-0044		
23881.002-0045 }	**Progressive Analysis Group: 4**	
23881.002-0046		
23881.002-0047 }	**Progressive Analysis Group: 3**	
23881.002-0048 }	**Progressive Analysis Group: 4**	
23881.002-0049		
23881.002-0050		
23881.002-0051 }	**Progressive Analysis Group: 4**	
23881.002-0052		
23881.002-0053 }	**Progressive Analysis Group: 4**	
23881.002-0054 }	**Progressive Analysis Group: 5**	
23881.002-0055 }	" 5	
23881.002-0056 }	" 5	
23881.002-0057		
23881.002-0058		
23881.002-0059		
23881.002-0060 }	**Progressive Analysis Group: 3**	
23881.002-0061		
23881.002-0062		

PBS Engineering + Environmental

153655 p4/4

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Please analyze the enclosed 62 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.
Request verbal results by: _____ AM/PM _____Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: **5 Day**

SPECIAL INSTRUCTIONS:

Please note the progressive analysis groups defined above.

RD

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Client: PBS Engineering and Environmental
4412 SW Corbett Avenue
Portland, OR 97239

Report Number: 160544R01
Report Date: 02/11/2016

P.O. No: n/a

Job Number: **160544**
Project Name:
Project Number: 23881.002 Phase 0001
Project Notes:

Client Sample ID: **23881.002-0101** **Sample ID:** S1 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl tile, white	90 %	-	-	-			**NAD**
Layer 02							
mastic, gray/tan	10 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %

Client Sample ID: **23881.002-0102** **Sample ID:** S2 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl tile, white	99 %	-	-	-			**NAD**
Layer 02							
mastic, orange	1 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 160544

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: 23881.002-0103 **Sample ID:** S3 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
vinyl tile, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0104 **Sample ID:** S4 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl tile, off-white	99 %	-	-	-			**NAD**
Layer 02							
mastic, orange	1 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	1 %	-	-	-	-	99 %

Client Sample ID: 23881.002-0105 **Sample ID:** S5 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Layer 01							
vinyl sheet, white	99 %	-	-	-			**NAD**
Layer 02							
mastic, orange	1 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	4 %	-	-	-	-	96 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0106** **Sample ID:** S6 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
granular mastic, gray/orange	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	3 %	-	-	-	-	97 %

Client Sample ID: **23881.002-0107** **Sample ID:** S7 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl sheet, off-white	50 %	-	-	-			**NAD**
Layer 02							
fibrous backing, off-white	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	10 %	35 %	-	-	-	-	55 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0108** **Sample ID:** S8 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl sheet, gray	47 %	-	-	-			**NAD**
Layer 02							
fibrous backing, gray	47 %	-	-	-			**NAD**
Layer 03							
mastic, tan	6 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	5 %	35 %	-	-	-	-	60 %
Layer 03	-	2 %	-	-	-	-	98 %

Client Sample ID: **23881.002-0109** **Sample ID:** S9 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl sheet, gray	65 %	-	-	-			**NAD**
Layer 02							
fibrous backing, gray	35 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	5 %	45 %	-	-	-	-	50 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0110** **Sample ID:** S10 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
vinyl sheet, white	30 %	-	-	-			**NAD**
Layer 02							
fibrous backing, gray	70 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	5 %	35 %	-	-	-	-	60 %

Client Sample ID: **23881.002-0111** **Sample ID:** S11 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, gray	97 %	-	-	-			**NAD**
Layer 02							
mastic, yellow	3 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23881.002-0112** **Sample ID:** S12 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, black	40 %	-	-	-			**NAD**
Layer 02							
mastic, yellow	60 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

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Asbestos and Environmental Analysis

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Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0113** **Sample ID:** S13 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
rubbery material, gray	50 %	-	-	-			**NAD**
Layer 02							
mastic, off-white	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	-	-	-	-	-	-	100 %

Client Sample ID: **23881.002-0114** **Sample ID:** S14 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
loose powder, pink	50 %	-	-	-			**NAD**
Layer 02							
fibrous backing, tan	50 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	3 %	1 %	-	-	-	-	96 %
Layer 02	-	100 %	-	-	-	-	0 %

Client Sample ID: **23881.002-0115** **Sample ID:** S15 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compact chalky material with paper, light pink	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	2 %	6 %	-	-	-	-	92 %

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BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0116** **Sample ID:** S16 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compact chalky material with paper, light pink	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	2 %	4 %	-	-	-	-	94 %

Client Sample ID: **23881.002-0117** **Sample ID:** S17 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compact chalky material with paper, light pink	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	2 %	6 %	-	-	-	-	92 %

Client Sample ID: **23881.002-0118** **Sample ID:** S18 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compact chalky material with paper, off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	2 %	5 %	-	-	-	-	93 %

NVLAP LAB CODE 200741-0

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: 160544

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: 23881.002-0119 **Sample ID:** S19 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
fine compact powder, white with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0120 **Sample ID:** S20 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
fine compact powder, white with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	-	-	-	-	-	100 %

Client Sample ID: 23881.002-0121 **Sample ID:** S21 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			Percent Asbestos:
Homogeneous							
compressed fibrous material, tan with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	10 %	50 %	15 %	-	-	-	15 %
						Perlite	10 %

NVLAP LAB CODE 200741-0

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0122** **Sample ID:** S22 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compressed fibrous material, tan with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		
	10 %	50 %	15 %	-	-	-	Matrix 25 %
						Perlite	0 %

Client Sample ID: **23881.002-0123** **Sample ID:** S23 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compressed fibrous material, tan with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		
	10 %	50 %	15 %	-	-	-	Matrix 15 %
						Perlite	10 %

Client Sample ID: **23881.002-0124** **Sample ID:** S24 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compressed fibrous material, tan with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		
	10 %	50 %	15 %	-	-	-	Matrix 15 %
						Perlite	10 %

NVLAP LAB CODE 200741-0

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0125** **Sample ID:** S25 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
compressed fibrous material, tan with paint, white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	5 %	50 %	10 %	-	-	-	20 %
						Perlite	15 %

Client Sample ID: **23881.002-0126** **Sample ID:** S26 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
flaky material, gray	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	8 %	-	-	-	-	92 %

Client Sample ID: **23881.002-0127** **Sample ID:** S27 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Homogeneous							
loose powder, off-white	100 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
	-	7 %	-	-	-	-	93 %

NVLAP LAB CODE 200741-0

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0128** **Sample ID:** S28 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
fine compact powder, off-white	5 %	-	-	-			**NAD**
Layer 02							
compact chalky material with paper, white	95 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	3 %	8 %	-	-	-	-	89 %

Client Sample ID: **23881.002-0129** **Sample ID:** S29 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
fine compact powder, white	2 %	-	-	-			**NAD**
Layer 02							
compact chalky material with paper, white	98 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	1 %	4 %	-	-	-	-	95 %

NVLAP LAB CODE 200741-0

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

Client Sample ID: **23881.002-0130** **Sample ID:** S30 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
fine compact powder, off-white	3 %	-	-	-			**NAD**
Layer 02							
compact chalky material with paper, white	97 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	-	-	-	-	-	100 %
Layer 02	2 %	5 %	-	-	-	-	93 %

Client Sample ID: **23881.002-0131** **Sample ID:** S31 **Date Analyzed:** 02/11/2016
Client Sample Description: **Analyst:** Stephanie Golden

Asbestos Mineral Fibers	Layer Percent:	Chrysotile	Amosite	Crocidolite			**Percent Asbestos:**
Layer 01							
compressed fibers, brown with paint, white	10 %	-	-	-			**NAD**
Layer 02							
mastic, brown	85 %	-	-	-			**NAD**
Layer 03							
compact powder, tan with paper, brown	5 %	-	-	-			**NAD**

Other Fibers	Fibrous Glass	Cellulose	Mineral Wool	Synthetic	Other		Matrix
Layer 01	-	98 %	-	-	-	-	2 %
Layer 02	-	2 %	-	-	-	-	98 %
Layer 03	-	50 %	-	-	-	-	50 %

NVLAP LAB CODE 200741-0

LabCor Portland Inc

Lab/Cor Portland, Inc.
4321 SW Corbett Ave., Ste A
Portland, OR 97239

BULK SAMPLE ASBESTOS ANALYSIS

Asbestos and Environmental Analysis

Phone: (503) 224-5055
http://www.labcorpdx.net

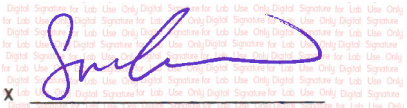
Job Number: **160544**

Report Number: 160544R01
Report Date: 02/11/2016

This laboratory participates in the National Voluntary Laboratory Accreditation Program (NVLAP).
Testing method is per 40 CFR 763 Subpart E, Appendix A, PLM.

•"NAD" is No Asbestos Detected.
•Asbestos consists of the following minerals: chrysotile, amosite, crocidolite, tremolite, actinolite, anthophyllite.
•Material binders, such as those found in vinyl floor tiles, may prevent the detection of small diameter asbestos fibers. A gravimetric preparation and point-count is recommended for such samples.
•Quantitative analysis by PLM point count or TEM may be recommended for samples testing at < or = to 1% asbestos.
•The following estimate of error for this method by visual estimation of asbestos percent are as follows:
•1% asbestos: 0-3% error, 5% asbestos: 1-9% error, 10% asbestos: 5-15% error, 20% asbestos: 10-30% error.
•This report pertains only to the samples listed on the report. Report considered valid only when signed by analyst

Reviewed by:



X _____

Stephanie Golden
Technical Manager

NVLAP LAB CODE 200741-0

160544 p1/2

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: 23881.002 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: February 08, 2016

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Keller
Name

H Keller
Authorized Signature

2/8/16 11:45 am
Date

RECEIVER

Date Received: 2/8/16 12:30

Company: Lab Cor
Address: 4321 SW Corbett Ave Ste A
Portland, OR 97239
503-224-5055

Alex Johnson
Name

Authorized Signature

2/8/16
Date

Sender's ID No.	Brief Description	Receiver's ID No.
23881.002-0101		
23881.002-0102		
23881.002-0103		
23881.002-0104		
23881.002-0105		
23881.002-0106		
23881.002-0107		
23881.002-0108		
23881.002-0109		
23881.002-0110		
23881.002-0111		
23881.002-0112		
23881.002-0113		
23881.002-0114		

160544 p2/2

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

23881.002-0115		
23881.002-0116		
23881.002-0117		
23881.002-0118		
23881.002-0119		
23881.002-0120		
23881.002-0121		
23881.002-0122		
23881.002-0123		
23881.002-0124		
23881.002-0125		
23881.002-0126		
23881.002-0127		
23881.002-0128		
23881.002-0129		
23881.002-0130		
23881.002-0131		

Please analyze the enclosed 31 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.
Request verbal results by: _____ AM/PM _____Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: **72 Hour**

SPECIAL INSTRUCTIONS:

RD|WS

RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

LABORATORY REPORT

PBS Engineering & Environmental
4412 Southwest Corbett Ave.
Portland, OR 97239

Attn: Harmony Kilby
Phone: 503-248-1939
Fax: 866-727-0140
Email: harmony.kilby@pbsenv.com

RJ Lee Group Job No.: PA090220160002
Samples Received: February 9, 2016
Report Date: February 12, 2016
Client Project: 23881.002 Phase 0001
Purchase Order No.: N/A
Matrix: Solid
Prep/Analysis: EPA 3050B / EPA 7000B-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB23881.002-1100	PA090220160002-001	NP	Lead	< 0.020	< 200	0.020	200	02/11/2016	AN
LB23881.002-1101	PA090220160002-002	NP	Lead	< 0.020	< 200	0.020	200	02/11/2016	AN
LB23881.002-1102	PA090220160002-003	NP	Lead	< 0.015	< 150	0.015	150	02/11/2016	AN
LB23881.002-1103	PA090220160002-004	NP	Lead	< 0.12	< 1200	0.12	1200	02/11/2016	AN
LB23881.002-1104	PA090220160002-005	NP	Lead	< 0.011	< 110	0.011	110	02/11/2016	AN
LB23881.002-1105	PA090220160002-006	NP	Lead	< 0.017	< 170	0.017	170	02/11/2016	AN

Comments:

Report Qualifiers (Q):

P *: PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)*
N *: NY ELAP Accredited (NY ELAP Lab Code 10884)*
C *: CA ELAP Accredited (CA ELAP Certificate 1970)*
A *: AIHA-LAP, LLC Accredited (Lab ID 100364)*
E = Value above highest calibration standard
J = Value below lowest calibration standard but above MDL (Method Detection Limit)
L = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery outside accepted recovery limits
H = Holding times for preparation or analysis exceeded
B = Analyte detected in the associated Method Blank
S = Spike Recovery outside accepted limits
R = RPD (relative percent difference) outside accepted limits
D = RL (reporting limit verification) outside accepted limits
NP = Not Provided
— : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of accreditations

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.
This laboratory operates in accord with ISO 17025:2005 guidelines, and holds a limited scope of accreditations under different accrediting agencies; refer to http://www.rjlg.com/about-us/accreditations/ for more information and current status. Unless it is specifically stated otherwise (under the Q column using the appropriate accrediting agency qualifier(s)) the work contained in this report is performed under RJLG's General Quality System requirements and is not part of any scope of accreditations. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid.

Unless otherwise noted (either in the comments section of the report and/or with the appropiate qualifiers under the report qualifiers (Q) column) the following apply: (a) Samples were received in good condition, (b) All QC samples are within acceptable established limits, (c) All samples designated as NELAP meet the requirements of the NELAC standard; if not applicable qualifiers will be used to designate the non-compliance and (d) Results have not been blank corrected. Quality Control data is available upon request.

Philip Grindle
Laboratory Supervisor

PBS | Engineering + Environmental

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: 23881.002 Phase 0001

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: February 08, 2016

PBS Engineering and Environmental Inc.
4412 SW Corbett Avenue
Portland, OR 97239
503.248.1939, Fax: 866.727.0140

Harmony Kellogg
Name

HKellogg 2/8/16
Authorized Signature **Date**

RECEIVER

Date Received: 020916

Company: R.J. Lee Group
Address: 350 Hochberg Road
Monroeville, PA 15146
724-325-1776

JOAKLEY 1030
Name

020916
Authorized Signature **Date**

Sender's ID No.	Brief Description	Receiver's ID No.
LB23881.002-1100		
LB23881.002-1101		
LB23881.002-1102		
LB23881.002-1103		
LB23881.002-1104		
LB23881.002-1105		

ANALYSIS REQUESTED:

LEAD:
- [x] Paint
- [ ] Wipe
- [ ] Soil/Misc.
- [ ] Air
- [ ] TCLP

Please analyze the enclosed 6 sample(s) for LEAD content using Atomic Absorption Method. PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

72 Hour

SPECIAL INSTRUCTIONS:

RD/WS

THIS IS TO CERTIFY THAT

RICH A. DUFRESNE

HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE

for

ASBESTOS INSPECTOR / MANAGEMENT PLANNER REFRESHER

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 04/02/2015

Course Location: Portland, OR

Certificate: IMR-15-0264A

PBS | Engineering + Environmental

Expiration Date: 04/02/2016

AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

For verification of the authenticity of this certificate contact:
PBS Environmental
4412 SW Corbett Avenue
Portland, OR 97239
(503) 248-1939

David Stover

David Stover, Director of Training

NE WILKES ROAD

NE 169TH AVENUE

MATCH LINE

S 89°53'39" E 403.93'

N 00°14'52" E 566.58'

MATCH LINE

MATCH LINE

NOTES:

1. BENCH MARK: CITY OF PORTLAND BENCH MARK NO. 3464, ELEV.=175.22'.
2. CONTOURS ARE AT ONE-FOOT INTERVALS AND ARE COMPUTER GENERATED.
3. UNDERGROUND UTILITIES ARE SUBJECT TO ACTUAL FIELD LOCATION.
4. ALL UTILITIES MAY NOT BE SHOWN.
5. TREE SPREADS ARE NOT TO SCALE.
6. THIS SURVEY REFLECTS INFORMATION SHOWN ON THE TITLE REPORT BY TICOR TITLE COMPANY, ORDER NO. 362608095TO-TTPOR51, DATED NOVEMBER 4, 2015. THERE ARE NO EASEMENTS ON SAID TITLE REPORT THAT AFFECT THIS PROPERTY.

LEGEND:

WV = WATER VALVE
FH = FIRE HYDRANT
AS = AUTOMATIC SPRINKLER
WM = WATER METER
BO = BOLLARD
CO = CLEAN OUT
FF = FINISH FLOOR ELEVATION
TW = TOP OF WALL
BW = BOTTOM OF WALL
TC = TOP OF CURB
G = GUTTER OF CURB
DS = DOWN SPOUT
GV = GAS VALVE
GM = GAS METER
PP = POWER POLE
GA = GUY ANCHOR
SS = STREET SIGN
CB = CATCH BASIN
BB = BASKET BALL
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS
TD = TOP OF DECK
HCS = HANDICAP SIGN
WCR = WHEEL CHAIR RAMP
MLP = METAL LIGHT POLE

0 10 20 30

REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
JULY 16, 1982
ERIC D. JONES
1996

EXPIRES: 6-30-17

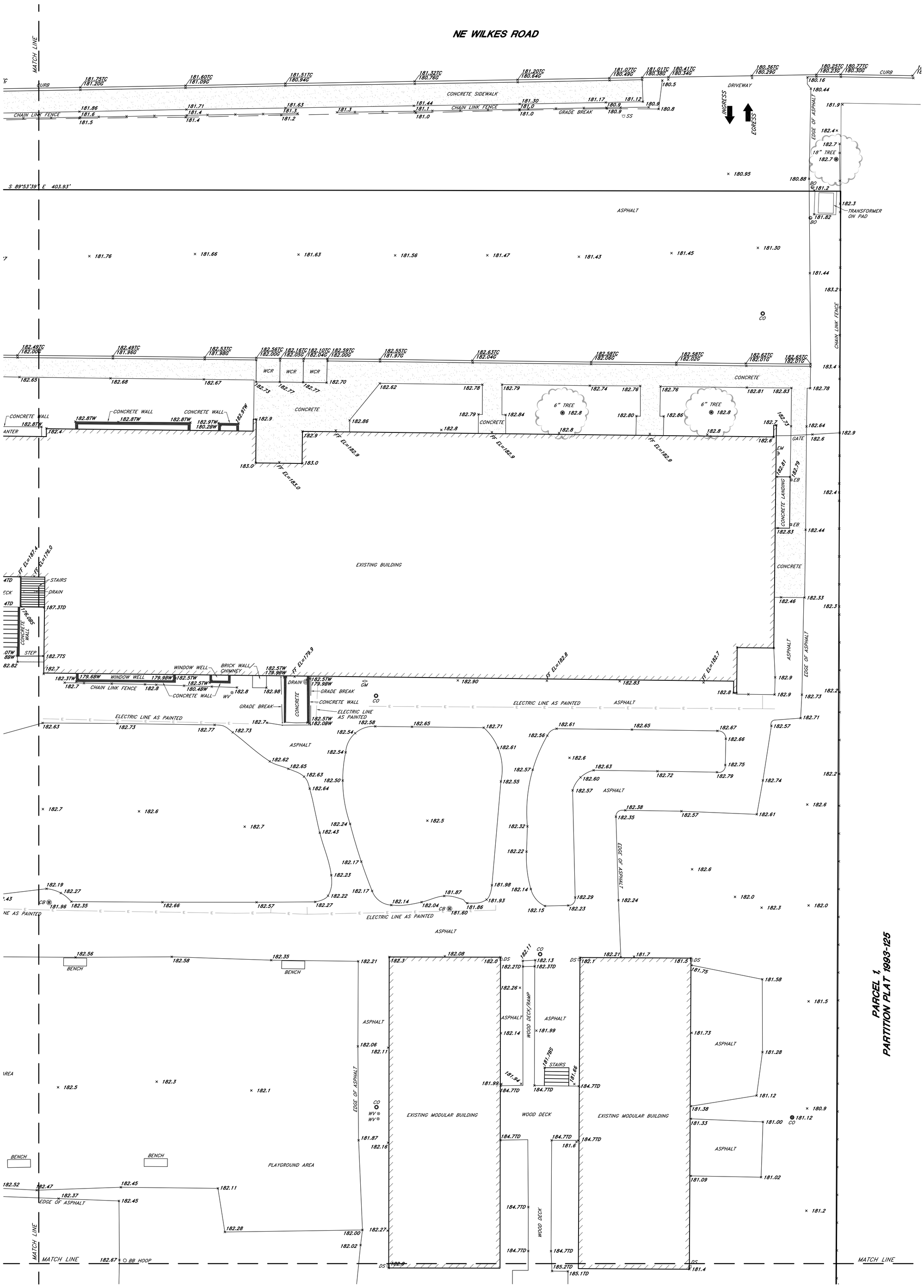
FOR YOUR REVIEW ONLY

R.S. GREENLEAF (1885-1915)
MARSHALL BROTHERS (1915-1957)
BOOTH & WRIGHT (1957-1977)
SETON, JOHNSON & ODELL (1977-1983)
CHASE, JONES & ASSOCIATES, INC. (1983-)

TOPOGRAPHIC SURVEY
OF
WILKES ELEMENTARY SCHOOL
SITUATED IN THE
NORTHWEST 1/4 OF SECTION 30, T. 1 N., R. 3 E., W.M.
CITY OF GRESHAM, COUNTY OF MULTNOMAH, STATE OF OREGON

CHASE, JONES & ASSOCIATES INC.
716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14311		MARCH 23, 2016	1 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	



NOTES:

1. BENCH MARK: CITY OF PORTLAND BENCH MARK NO. 3464, ELEV.=175.22'.
2. CONTOURS ARE AT ONE-FOOT INTERVALS AND ARE COMPUTER GENERATED.
3. UNDERGROUND UTILITIES ARE SUBJECT TO ACTUAL FIELD LOCATION.
4. ALL UTILITIES MAY NOT BE SHOWN.
5. TREE SPREADS ARE NOT TO SCALE.
6. THIS SURVEY REFLECTS INFORMATION SHOWN ON THE TITLE REPORT BY TICOR TITLE COMPANY, ORDER NO. 362608095710-TTIPOR51, DATED NOVEMBER 4, 2015. THERE ARE NO EASEMENTS ON SAID TITLE REPORT THAT AFFECT THIS PROPERTY.

LEGEND:

WV = WATER VALVE
FH = FIRE HYDRANT
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WM = WATER METER
BO = BOLLARD
CO = CLEAN OUT
FF = FINISH FLOOR ELEVATION
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TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS
TD = TOP OF DECK
HCS = HANDICAP SIGN
WCR = WHEEL CHAIR RAMP
MLP = METAL LIGHT POLE

0 10 20 30

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 25, 1982
ERIC D. JONES
1996
EXPIRES: 6-30-17

FOR YOUR REVIEW ONLY

R.S. GREENLEAF (1885-1915)
MARSHALL BROTHERS (1915-1957)
BOOTH & WRIGHT (1957-1977)
SETON, JOHNSON & ODELL (1977-1983)
CHASE, JONES & ASSOCIATES, INC. (1983-)

TOPOGRAPHIC SURVEY
OF
WILKES ELEMENTARY SCHOOL
SITUATED IN THE
NORTHWEST 1/4 OF SECTION 30, T. 1 N., R. 3 E., W.M.
CITY OF GRESHAM, COUNTY OF MULTNOMAH, STATE OF OREGON

CHASE, JONES & ASSOCIATES INC.
716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14311		MARCH 23, 2016	2 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	

MATCH LINE

GRAVEL

PP W/LIGHT

182.56 182.1 181.0 180.6 N 00°14'52" E 566.5'

182.56

SS

FH

CHAIN LINK FENCE

4" CULVERT
IE=180.8

182.3 181.5 DS

181.1 181.0 181.4 181.8 182.2

182.64 182.6 182.59 DS 182.4 182.4 182.5 DS 182.33 182.55

182.3 182.4 182.4

EXISTING MODULAR BUILDING

BB HOOP

MATCH LINE

182.64

ASPHALT

182.6

GRAVEL DRIVEWAY

GATE

GRAVEL

GRAVEL

182.66 EDGE OF ASPHALT 182.78

181.6 181.2 182.3 181.0 181.3 181.9 182.4 182.6 182.7

IE=180.9
4" CULVERT

180.9

182.67

EDGE OF ASPHALT

CHAIN LINK FENCE

MANHOLE
LID=182.90

GRADE BREAK

182.74 182.4 180.9 181.0

GRAVEL

182.81 182.6 PP 181.0 181.1

183.18 183.0 181.2 181.1

183.17 182.9 181.1 181.4

MANHOLE
LID=182.94

NE 169TH AVENUE

183.28 183.0 181.3 181.5

183.40 183.1 181.4 181.6

MANHOLE
LID=183.29

GRAVEL

183.24 182.9 181.4 181.4

EDGE OF ASPHALT

GRADE BREAK

182.5 181.7

183.08

182.96

CHAIN LINK FENCE

182.1

GATE

182.3

183.10TC
183.08G

183.68TC
183.16G

CB
183.02

183.78TC
183.19G

CONCRETE SIDEWALK

183.7 183.81 183.90

183.8
14" MAPLE

PP

181.7

181.5

WOOD BENCH

181.5

181.8

CHAIN LINK FENCE BACKSTOP

181.7

182.2 182.3

182.2 182.3

WOOD BENCH

182.3 CHAIN LINK FENCE 182.3 182.6 182.8 183.1 183.5 183.7 N 89°53'39" W 403.93'

MATCH LINE

TAX LOT 200

181.6 181.1 182.64 181.0 182.56 182.1 181.0 180.6 182.56 182.6 182.59 182.4 182.4 182.5 182.33 182.55 182.3 182.4 182.4 182.64 182.6 182.66 182.78 182.3 181.6 181.2 181.0 181.3 181.9 182.4 182.6 182.7 182.67 182.74 182.4 180.9 181.0 182.81 182.6 181.0 181.1 183.18 183.0 181.2 181.1 183.17 182.9 181.1 181.4 183.28 183.0 181.3 181.5 183.40 183.1 181.4 181.6 183.24 182.9 181.4 181.4 182.5 181.7 183.08 181.7 182.96 182.1 182.3 183.10TC 183.08G 183.68TC 183.16G 183.78TC 183.19G 183.7 183.81 183.90 183.8 14" MAPLE 181.7 181.5 181.5 181.8 182.2 182.3 182.2 182.3 182.3 182.3 182.3 182.6 182.8 183.1 183.5 183.7 N 89°53'39" W 403.93' 181.6 181.7 181.5 181.7 182.0 182.3 183.0 183.1 183.3 182.1 182.2 182.5 182.7 183.2 183.6 183.5 182.3 182.5 182.9 183.1 183.4 183.6 182.3 182.3 182.5 182.9 183.2 183.7 183.8 182.9 183.2 183.5

0 10 20 30

NOTES:

1. BENCH MARK: CITY OF PORTLAND BENCH MARK NO. 3464, ELEV.=175.22'.
2. CONTOURS ARE AT ONE-FOOT INTERVALS AND ARE COMPUTER GENERATED.
3. UNDERGROUND UTILITIES ARE SUBJECT TO ACTUAL FIELD LOCATION.
4. ALL UTILITIES MAY NOT BE SHOWN.
5. TREE SPREADS ARE NOT TO SCALE.
6. THIS SURVEY REFLECTS INFORMATION SHOWN ON THE TITLE REPORT BY TICOR TITLE COMPANY, ORDER NO. 36260809570-TTPOR51, DATED NOVEMBER 4, 2015. THERE ARE NO EASEMENTS ON SAID TITLE REPORT THAT AFFECT THIS PROPERTY.

LEGEND:

WV = WATER VALVE
FH = FIRE HYDRANT
AS = AUTOMATIC SPRINKLER
WM = WATER METER
BO = BOLLARD
CO = CLEAN OUT
FF = FINISH FLOOR ELEVATION
TW = TOP OF WALL
BW = BOTTOM OF WALL
TC = TOP OF CURB
G = GUTTER OF CURB
DS = DOWN SPOUT
GV = GAS VALVE
GM = GAS METER
PP = POWER POLE
GA = GUY ANCHOR
SS = STREET SIGN
CB = CATCH BASIN
BB = BASKET BALL
TS = TOP OF STAIRS
BS = BOTTOM OF STAIRS
TD = TOP OF DECK
HCS = HANDICAP SIGN
WCR = WHEEL CHAIR RAMP
MLP = METAL LIGHT POLE

REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 15, 1982
ERIC D. JONES
1996
EXPIRES: 6-30-17

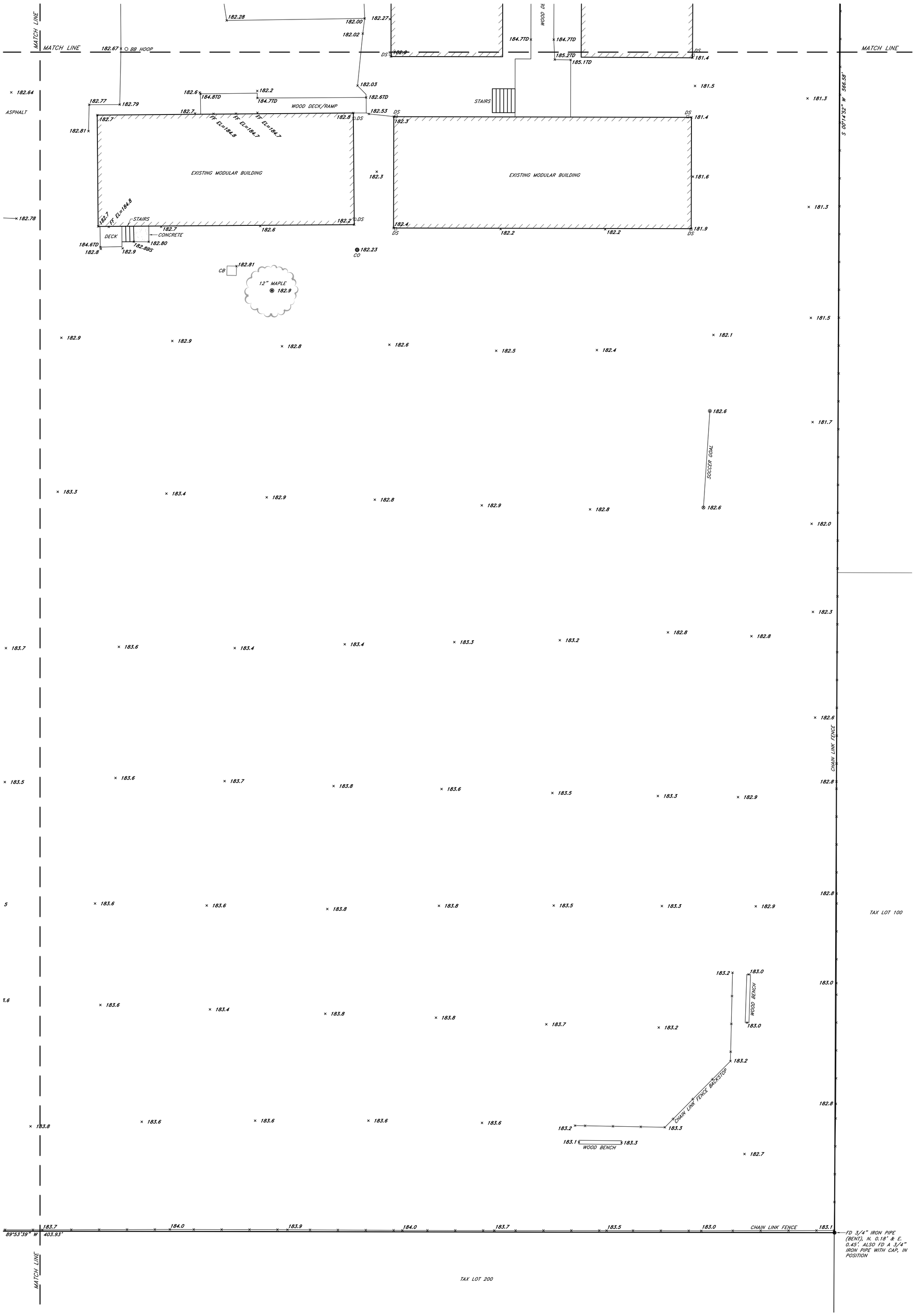
FOR YOUR REVIEW ONLY

TOPOGRAPHIC SURVEY
OF
WILKES ELEMENTARY SCHOOL
SITUATED IN THE
NORTHWEST 1/4 OF SECTION 30, T. 1 N., R. 3 E., W.M.
CITY OF GRESHAM, COUNTY OF MULTNOMAH, STATE OF OREGON

R.S. GREENLEAF (1885-1915)
MARSHALL BROTHERS (1915-1957)
BOOTH & WRIGHT (1957-1977)
SETON, JOHNSON & ODELL (1977-1983)
CHASE, JONES & ASSOCIATES, INC. (1983-)

CHASE, JONES & ASSOCIATES INC.
CJ2
716 S. E. 11TH AVE. PORTLAND, OREGON 97214
PHONE: (503) 228-9844

PROJECT NO.	1/4 SECTION	DATE	SHEET
14311		MARCH 23, 2016	3 OF 4
DRAWN BY	CHECKED BY	SCALE	
DLW	EDJ	1" = 10'	



NOTES:

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REGISTERED PROFESSIONAL LAND SURVEYOR
OREGON
JULY 25, 1982
ERIC D. JONES
1996
EXPIRES: 6-30-17

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14311		MARCH 23, 2016	4 OF 4
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GeoDesign Inc

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Wilkes Elementary School
17020 NE Wilkes Road
Gresham, Oregon

For
Reynolds School District #7
April 12, 2016

GeoDesign Project: ReynoldsSD-5-02

GeoDesign INC

April 12, 2016

Reynolds School District #7
1204 NE 201st Avenue
Fairview, OR 97024

Attention: Ms. Rachel Hopper

Phase I Environmental Site Assessment
Wilkes Elementary School
17020 NE Wilkes Road
Gresham, Oregon
GeoDesign Project: ReynoldSD-5-02

GeoDesign, Inc. is pleased to submit our Phase I ESA of the Wilkes Elementary School site located at 17020 NE Wilkes Road in Gresham, Oregon. Our work was completed in conformance with the standards and practices for all appropriate inquiries specified in Title 40, Chapter I of CFR Part 312 and ASTM Practice E 1527-13. Contractual terms for our services are contained in our proposal dated February 24, 2016.

We appreciate the opportunity to be of service to Reynolds School District #7. Please contact us if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.

Robert E. Belding, R.G.
Principal Geologist

cc: Mr. Robert Collins, Day CPM Services

KMC:JMZ:REB:kt
Attachments
Document ID: ReynoldsSD-5-02-041216-envr.docx
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Appendix A	Firm Profile
	Resumes of Project Personnel
Appendix B	Regulatory Database Information
Appendix C	Historical Information

ACRONYMS AND ABBREVIATIONS

1.0 INTRODUCTION

This report summarizes the results of our Phase I ESA of the Wilkes Elementary School site located at 17020 NE Wilkes Road in Gresham, Oregon (project site). The project site includes Tax Lot 900 of Multnomah County Tax Map 1N3E30B and is currently occupied by a two-story elementary school, including the main school building, a gym, a playground, a sport field, a covered basketball court, several portable classrooms, a storage building, a cafeteria, a boiler room, and a paved parking lot. The project site is shown relative to surrounding physical features on Figure 1. The project site layout and surrounding properties are shown on Figure 2. GeoDesign's firm profile and resumes of project personnel are presented in Appendix A. Acronyms and abbreviations used herein are defined at the end of this document.

2.0 PURPOSE

2.1 PROTECTION FROM CERCLA LIABILITY

One purpose for conducting a Phase I ESA is to undertake all appropriate inquiries into prior ownership and uses of a property so that a prospective purchaser may potentially claim protection from CERCLA and/or state liability as an innocent landowner, a bona fide prospective purchaser, or a contiguous property owner. The standards and practices for all appropriate inquiries are specified in Title 40, Chapter I of CFR Part 312 and ORS 465. The inquiry must be conducted by an environmental professional to identify conditions indicative of releases and threatened releases of hazardous substances as defined in CERCLA Section 101(22). If the prospective purchaser is the recipient of an EPA Brownfields Grant, the inquiry must also identify conditions indicative of releases and threatened releases of petroleum and petroleum products and controlled substances as defined in 21 U.S. Code 802. These standards and practices do not require the identification of quantities of hazardous substances, petroleum and petroleum products, and controlled substances that, because of said quantity, generally would not pose a threat to human health or the environment.

2.2 IDENTIFICATION OF RECOGNIZED ENVIRONMENTAL CONDITIONS

Another purpose for conducting a Phase I ESA is to identify recognized environmental conditions in connection with a property as they pertain to ASTM Practice E 1527-13. This practice is intended for use by parties who wish to assess the environmental condition of a property by taking into account commonly known and reasonably ascertainable information. Although use of ASTM Practice E 1527-13 constitutes all appropriate inquiry as described in Section 2.1, the standard is intended primarily as an approach to identify recognized environmental conditions in connection with a property. A recognized environmental condition is defined by the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment, (2) under conditions indicative of a release to the environment, or (3) under conditions that pose a material threat of a future release to the environment. Recognized environmental conditions do not include de minimis conditions that do not generally present a risk to public health or to the environment and would not be the subject of legal enforcement if brought to the attention of appropriate governmental agencies.

3.0 SCOPE OF SERVICES

The scope of services completed for this project was conducted in conformance with the standards and practices for all appropriate inquiries specified in 40 CFR Part 312 and the scope and limitations of ASTM Practice E 1527-13. The specific completed scope of services included the following:

- Reviewed a current USGS topographic map to identify the physical setting of the project site.
- Reviewed federal, tribal, state, and local environmental records for listings of known or suspected environmental conditions at the project site or nearby properties as specified in 40 CFR Part 312 and ASTM Practice E 1527-13.
- Reviewed reasonably ascertainable standard historical sources, including aerial photographs, USGS topographic maps, reverse city directories, online property information (including available building department records, property tax information, and zoning/land use records), and other historical sources, as appropriate to identify development history on and adjacent to the project site relative to the possible use, generation, storage, release, or disposal of hazardous substances.
- Interviewed the current owner and occupant of the project site regarding their knowledge of the project site.
- Conducted a visual reconnaissance of the project site and adjacent properties to obtain information indicating the likelihood of identifying recognized environmental conditions concerning the properties.
- Prepared this report that presents our findings and provides conclusions and recommendations.

The scope of services was limited to only those items listed above. This project did not include completion of an environmental compliance audit; an evaluation for the presence of PCBs in light ballasts; a survey for asbestos, lead-based paint, radon gas, toxic mold, biological pollutants, or urea-formaldehyde insulation; or a wetlands determination or delineation.

4.0 PROJECT SITE AND VICINITY DESCRIPTION

Information concerning the physical setting of the project site and vicinity is based on a review of the USGS 7.5-minute Camas, Oregon, topographic quadrangle map; information provided by EDR of Shelton, Connecticut; and observations made during a site reconnaissance conducted on March 24, 2016.

The project site encompasses approximately 5.33 acres at 17020 NE Wilkes Road in Gresham, Oregon. The project site is currently owned by Reynolds School District #7 and developed with a two-story elementary school, including the main school building, a gym, a playground, a sport field, a covered basketball court, several portable classrooms, a storage building, a cafeteria, a boiler room, and a paved parking lot. The project site includes Tax Lot 900 in the northwest quarter of Section 30, Township 1 North, Range 3 East of the Willamette Meridian.

The project site is situated at an elevation of approximately 185 feet above MSL. The topography of the project site is generally level. Based on a review of topographic maps for the area, shallow

groundwater beneath the project site is expected to flow to the north towards the Columbia River. Groundwater was observed in our geotechnical borings recently completed on the project site at depths between 12 and 15 feet BGS.

Land use in the vicinity of the project site is industrial to the south and east and residential to the west. The ROW of Interstate 84 (I-84) is located north of the project site. According to the City of Gresham Planning Department, the project site is zoned General Industrial (GI). Properties surrounding the project site are zoned General Industrial (GI) and Moderate Density Residential – 24 (MDR-24).

5.0 USER-PROVIDED INFORMATION

The purpose of this section is to describe information provided by the user of this report (Reynolds School District #7) that was considered in the evaluation of potential recognized environmental conditions in connection with the project site. Information provided by the user regarding the project site is summarized in the following sections. The user was not provided with title and judicial records for environmental liens or activity and land use restrictions, specialized or actual knowledge or experience, valuation reduction for environmental issues, or commonly known or reasonably ascertainable information. Therefore, these materials were not reviewed as part of this assessment. Previous environmental reports were provided by the User and are summarized in the following sections.

5.1 PREVIOUS REPORTS

GeoDesign was provided with three previous environmental reports regarding the project site. The findings and conclusions of the following reports are summarized in the following sections:

- *System-Wide Assessment, Individual Water Pollution Control Facilities (WPCF) Permit for Class V Stormwater Underground Control (UIC) Systems,* prepared by PBS Engineering and Environmental, Inc. (PBS), dated December 2015 (2015a)
- *Management Plan, Individual Water Pollution Control Facilities (WPCF) Permit for Class V Stormwater Underground Control (UIC) Systems,* prepared by PBS, dated December 2015 (2015b)
- *Monitoring Plan, Individual Water Pollution Control Facilities (WCPF) Permit for Class V Stormwater Underground Injection Control (UIC) Systems,* prepared by PBS, dated December 2015 (2015c)

5.1.1 PBS (2015a)

In December 2015 PBS developed an inventory of Reynolds School District #7 owned and operated UICs to support tracking and management of UICs, identify high-risk UICs for sampling and/or retrofit or closure, and develop a dataset to be used to adaptively manage Reynolds School District #7's stormwater monitoring program. Reynolds School District #7 maintains a UIC Inventory to track information relevant to the System-Wide Assessment. The inventory included the UIC status (active or closed), UIC identifier, basin type, and UIC location by latitude and longitude. Location coordinates of UICs not found during the assessment were estimated using historical site plans and Google Earth.

The project site (DEQ UIC Facility # 10772) was listed as having two active UICs. The project site is not listed as having any UICs that discharge directly to groundwater or are prohibited injection systems. The report noted that the project site is listed in the DEQ LUST database for a reported heating oil release in August 2001. Cleanup for this release was completed in October 2001 and LUST status is reported as closed. PBS reported the listing was not likely to pose a risk to the project site UICs. No DEQ sites with a potential to pose a risk to the UICs were identified adjacent to the school.

The report identified two dry wells at the project site (WE-DW-01 and WE-DW-02) located at the northern boundary of the sport field (Figure 2). The actual locations of the UICs were not determined in the field but approximated from historical site plans, site plans prepared by PBS in 2001, and Google Earth. Dry well WE-DW-01 was listed as an active storm dry well that collects stormwater from the roof of the project site structures. Dry well WE-DW-02 was listed as a french drain that collects stormwater from an unknown source. The reported depths are 15 and 3.5 feet, respectively.

The report lists two abandoned septic systems (WE-S-1 and WE-S-2) that were part of the same septic system. The system was abandoned per a 2001 inventory prepared by PBS.

The UIC Inventory may be updated periodically throughout the permit term as UICs are decommissioned, modified, or new UICs are installed. Significant changes to UIC systems will be reported to DEQ in the annual report for the calendar year in which the change occurred.

5.1.2 PBS (2015b)

PBS prepared a UIC Stormwater Management Plan that describes how the permittee (Reynolds School District #7) will manage and maintain stormwater features. The overall goal of the Management Plan is to protect groundwater by managing risks presented by various pollutants and pollutant sources. The Management Plan does not include any project site-specific information. The Management Plan details best management practices that include operations and maintenance, spill protection, pollution prevention and good housekeeping, employee education, public outreach, and recordkeeping responsibility.

The Management Plan includes protocol for the decommissioning of a UIC that includes a sampling plan, submit for closure authorization, decommissioning the UIC, and a final closeout report.

5.1.3 PBS (2015c)

PBS completed a District-wide UIC Stormwater Monitoring Plan to ensure that stormwater infiltration at the various Reynolds School District #7 facilities occurs in a manner that is protective of human health and the environment. The Stormwater Monitoring Plan presents UIC sampling procedures, including the chemical analytical program, to be implemented for each monitoring episode, quality assurance/quality control procedures to ensure data quality, and the reporting format to present data collected as part of the Monitoring Plan. The Monitoring Plan was implemented for three UICs, including one UIC at the Reynolds Middle School and two UICs at the Walt Morey Middle School. None of the UICs present on the project site are part of the Monitoring Plan.

6.0 ENVIRONMENTAL RECORDS REVIEW

Federal, tribal, state, and local environmental records and databases were compiled according to 40 CFR Part 312 and ASTM Practice E 1527-13 for the project site and those facilities that currently or previously have occupied properties within the specified search distance from the project site. Information contained in the records and databases was reviewed by GeoDesign to evaluate the potential for environmental impacts to the project site. The EDR report is presented in Appendix B.

6.1 PROJECT SITE

Based on our review of the EDR report, the project site was listed on the DEQ LUST, UST, and UIC databases.

The DEQ LUST database contains listings of sites with reported leaking UST incidents. According to the information in the EDR report and DEQ LUST database (File No. 26-01-6719), soil contamination was encountered during a heating oil tank decommissioning in August 2001. PBS certified that the LUST cleanup met DEQ's requirements. DEQ registered the report and certification and closed the LUST file in October 2001. The DEQ closure letter is presented in Appendix B. GeoDesign requested a review of LUST File No. 26-01-6719 from the DEQ Northwest Regional office. As of the date of this Phase I ESA, we have not received file information except for the DEQ closure letter dated October 12, 2001.

The DEQ UST database contains listings of site with registered USTs. According to information in the EDR report, the project site (Facility I.D.# 5083) has one decommissioned UST. The number of permitted or active USTs was not reported.

The DEQ UIC database contains listings of facilities that are registered with DEQ's UIC Program. As detailed in the previous section, the project site has two active UIC features for stormwater drainage and one abandoned septic system.

The project site was also identified on the EPA ICIS, FINDS, and ECHO databases. All three of these databases are inventory or reference lists and do not imply a release or a recognized environmental condition at the project site.

The listing of the project site on the LUST database indicates an historical recognized environmental condition at the project site.

6.2 SURROUNDING SITES

The EDR report identified 37 surrounding sites listed on one or more regulatory databases within the ASTM search distances. Based on local topography, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and information contained in the regulatory databases, it is our professional opinion that none of the 37 sites should pose a risk of a recognized environmental condition at the project site.

6.3 ORPHAN SITES

Due to poor or inadequate address information, EDR was unable to successfully map three facilities identified on several environmental databases. However, enough information was available to ascertain the general location of these orphan facilities relative to the project site and, in some cases, the status of the investigations concerning these orphan sites. Based on the location of the orphan sites, the inferred direction of shallow groundwater flow, the regulatory status of the listed sites, the media impacted at the listed sites, and information contained in the regulatory databases, it is our professional opinion that these orphan sites should not pose a risk of a recognized environmental condition at the project site.

7.0 PROJECT SITE HISTORY AND BACKGROUND

Reasonably ascertainable information concerning the history and background of the project site begins in 1918 and includes aerial photographs, USGS topographic maps, reverse city directories, online property information (including available building department records, property tax information, and zoning/land use records), and personal knowledge of individuals familiar with the project site. Fire insurance maps for the project site were not available as reported by EDR. The "No Coverage" report provided by EDR is presented in Appendix C.

Historical aerial photographs for the project site were obtained from EDR and were reviewed by GeoDesign. The scale of the photographs reviewed allowed for the interpretation of general site development/configuration but did not allow for the identification of specific project site features. Aerial photographs were reviewed for the following years: 1935, 1948, 1951, 1960, 1970, 1981, 1994, 2005, and 2011. The historical aerial photographs are presented in Appendix C.

Historical topographic maps of the project site were obtained from EDR to evaluate past uses of the project site. Topographic maps were reviewed for the following years: 1918, 1940/1941, 1942, 1954, 1961, 1970, 1975, 1995/1996, and 2013/2014. The historical topographic maps are presented in Appendix C.

Reverse city directories for the project site and adjacent properties were obtained from EDR. The city directories were reviewed (if available) at approximately five-year intervals for the years spanning 1924 through 2013. The EDR City Directory Abstract is presented in Appendix C.

Online property information for the project site and select adjacent properties was reviewed by GeoDesign. The online property information is presented in Appendix C.

7.1 PROJECT SITE

Based on the review of historical sources cited in Section 7.0, we have identified the following developmental history of the project site:

Year	Observations	Source
1918 through 1948	Wilkes Elementary School was present at the northwestern portion of the project site by 1918 and appeared as two separate buildings by at least 1935. The southern portion of the project site appeared as vacant, forested land. By 1948 the southern building was no longer visible, the southern portion of the project site was cleared, and the current foundation, including a subsurface vault south of the building, appeared to be under construction. The current storage building was visible at the project site by 1948.	• Aerial Photographs • Topographic Maps
1951 through 1994	The remaining Wilkes Elementary School building was moved to its current location and the main school structure was constructed by 1951. A building or covered area was present at the southeastern portion of the main school building between at least 1970 and 1994.	• Aerial Photographs • City Directories • Topographic Maps
2005 through 2016	The mobile classrooms, covered basketball court, and playground were present at the project site by 2005.	• Aerial Photographs • Topographic Map • Site Reconnaissance

Our review of historical sources from 1918 through 2016 indicated that the project site has been occupied by Wilkes Elementary School since at least 1918. The school was relocated and expanded with the main school structure by 1951. Mobile classrooms, a covered basketball court, and playground were added to the project site between approximately 1994 and 2005.

7.2 ADJOINING SITES

Based on the review of historical sources cited in Section 7.0, we have identified the following developmental history of properties adjoining the project site:

Year	Observations	Source
1918 through 1970	NE Wilkes Road was present north of the project site, with a different alignment, by 1918. Properties adjoining the project site appeared as either vacant or agricultural land with some associated residential use by 1935. NE 169th Avenue was present west of the project site by 1948. By 1960 I-84 was constructed north of the project site and NE Wilkes Road was re-aligned.	• Aerial Photographs • Topographic Maps • City Directories
1981 through 1994	The western adjacent property began to undergo development with a residential subdivision by 1981. The cold storage facility was constructed southeast of the project site by 1994.	• Aerial Photographs • City Directories
2005 through 2016	The commercial properties were completed east of the project site by 2005. The properties adjacent to the project site have remained relatively unchanged since approximately 2005.	• Aerial Photographs • City Directories • Topographic Map • Site Reconnaissance

Our review of historical sources from 1918 through 2016 indicated that properties adjoining the project site were vacant or agricultural land with associated residential use until approximately 1981. The western adjacent property was developed with residential usage beginning in 1981. The southern and eastern properties were developed with commercial properties between 1994 and 2005.

8.0 SITE RECONNAISSANCE

GeoDesign conducted a reconnaissance of the project site on March 24, 2016. The observations noted in this section apply to the project site as it appeared on that day. The site reconnaissance was performed to observe the current condition of the project site and to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the project site. Access to the project site and its structures was unlimited. The adjoining properties were also observed from the boundaries of the project site as part of the site reconnaissance. A site plan is provided on Figure 2. Photographs of the project site were taken to document observations made during the reconnaissance and are presented on Figures 3 and 4.

8.1 GENERAL PROJECT SITE USE

The project site consists of a two-story elementary school, including the main school building, a gym, a playground, a sport field, a covered basketball court, several portable classrooms, a storage building, a cafeteria, a boiler room, and a paved parking lot.

8.1.1 Site Drainage

Surface water at the project site is expected to either infiltrate into the ground surface or drain to infiltration galleries and dry wells at the project site from roof drains or catch basins. Reportedly, the area between the storage building and the gym is a french drain infiltration gallery. According to PBS, two dry wells are located south of the portable classrooms on the project site. Ponded water was observed at the paved parking area and in the catch basins located south of the school building. Petroleum-like sheens or odors were not observed.

8.1.2 Project Site Structures

The project site structures include a two-story, concrete building housing classrooms, offices, and the gym with one story below grade that encompasses 35,460 square feet; four single-story, wood-frame portable classrooms with no permanent foundation that each encompasses approximately 2,100 square feet; and a single-story, wood-frame storage building with slab-on-grade foundation that encompasses approximately 1,600 square feet.

8.1.3 Potable Water Supply

Potable water is supplied to the project site by the Rockwood Water District.

8.1.4 Sewage Disposal System

Sewage generated at the project site is discharged to the City of Gresham municipal sewer system. Municipal sewer service has been available at the project site since approximately 1965. Prior to 1965, the project site utilized a septic system located north of the portable classrooms.

8.1.5 Hazardous Substances and Petroleum Products

Small quantities of paints, cleaners, lubricants, and petroleum products were observed in the janitorial office and storage building. Evidence of leaks or spills was not observed in the vicinities of these containers.

8.1.6 Storage Tanks

GeoDesign personnel observed two possible fill ports at the northwestern corner of the storage building (Figure 2). Reportedly, the building was previously used as the residence for the groundskeeper and was heated with oil. Piping was observed adjacent to the boiler, indicating at one time the main school building was heated with heating oil. Reportedly, a heating oil tank was decommissioned at the project site in 2001 by PBS. Evidence of other USTs or ASTs was not observed on the project site.

8.1.7 Drums

Drums were not observed on the project site.

8.1.8 Unidentified Substance Containers

Unidentified substance containers suspected of containing hazardous substances or petroleum products were not observed on the project site.

8.1.9 Odors

Strong, pungent, or noxious odors were not observed on the project site.

8.1.10 Pools of Liquid

Pools of liquid were not observed on the project site.

8.1.11 PCB-Containing Equipment

One pad-mounted transformer was observed at the northeastern portion of the project site. The transformer was labeled “less than 1 ppm PCBs.”

8.1.12 Pits, Ponds, and Lagoons

Pits, ponds, or lagoons were not observed on the project site.

8.1.13 Stained Soil or Stained Pavement

Stained soil or stained pavement was not observed on the project site.

8.1.14 Stressed Vegetation

Stressed vegetation was not observed on the project site.

8.1.15 Solid Waste

Solid waste generated at the project site is stored in dumpsters located at the western portion of the storage building prior to pick up and disposal. Surface staining was not observed beneath the waste receptacles.

8.1.16 Waste Water

Waste water was not observed on the project site.

8.1.17 Wells
Water wells, dry wells, monitoring wells, irrigation wells, injection wells, abandoned wells, or other wells were not observed on the project site. Reportedly, two dry wells are located at the project site at the locations shown on Figure 2. However, the exact locations were not verified during the site reconnaissance.

8.1.18 Septic Systems
Evidence of an on-site septic system or cesspool was not observed on the project site.

8.1.19 Fill
Reportedly, gravel fill was placed in the french drain infiltration gallery between the gym and storage buildings.

8.1.20 Heating and Cooling Systems
The building is heated and cooled using natural gas-fired units. The emergency generator in the storage building runs on natural gas.

8.1.21 Interior Stains or Corrosion
Some floor staining was observed adjacent to an air compressor in the boiler room. The staining appeared to be de minimis in nature.

8.1.22 Interior Drains or Sumps
One floor drain was observed in the boiler room and one floor drain was observed in a shower in the basement level. Two sump pumps were observed in the basement level of the building. The pumps reportedly drain to a dry well located on the project site.

8.2 SURROUNDING PROPERTY USE
The project site is directly bound to the north by I-84, across which is vacant land; to the east by a vacant lot and the IBEW Local 125; to the south by Henningsen Cold Storage; and to the west by NE 169th Avenue, across which is a multi-family residential development. Evidence of adverse environmental conditions was not observed on adjacent properties.

9.0 INTERVIEWS

The project site is currently owned by Reynolds School District #7 and occupied by Wilkes Elementary School. GeoDesign interviewed the owner and occupant during the course of this study. Information obtained from these interviews is presented in the following sections.

9.1 CURRENT OWNER
Mr. Jon Gotchall (maintenance technician) completed a Phase I ESA property owner questionnaire regarding the project site on March 14, 2016. Mr. Gotchall has been familiar with the project site for approximately ten years. According to Mr. Gotchall, a concrete UST is located approximately 20 feet south of the school building. He stated that the school was relocated from north of I-84 and fill may be present on the project site. Mr. Gotchall provided the PBS UIC reports reviewed in Section 5.0.

9.2 CURRENT OCCUPANT

Mr. Tracy Young (Facilities Department) was interviewed on March 24, 2016 regarding his knowledge of the project site. Mr. Young has been familiar with the project site for approximately four years. Mr. Young accompanied GeoDesign personnel during the site reconnaissance and supplied much of the information detailed in Section 8.0. Mr. Young showed the approximate location of a large vault south of the main project site building. In addition, he showed the location of an infiltration gallery at the southwest corner of the main building/gym. Mr. Young stated that some work was recently completed in the area in order to remediate flooding issues.

9.3 STATE GOVERNMENT OFFICIAL

A telephone call was placed to Ms. Mary Jane Gilles (DEQ LUST Program) on April 1, 2016 regarding her knowledge of the project site. Our telephone call was not returned.

10.0 DATA GAPS

The location of the former heating oil tank was not determined during this assessment, although it is likely located in a concrete vault south of the boiler room. The location of this UST will be confirmed after we receive the LUST file information from DEQ. The closure of the LUST file with DEQ constitutes an historical recognized environmental condition; however, GeoDesign was not able to determine the presence or extent of any remaining contamination at the project site. Because additional information is forthcoming from DEQ, it is our professional opinion that this data gap is of low significance relative to our ability to identify recognized environmental conditions at the project site.

The exact location of the listed dry well and possible additional dry well noted by PBS was not determined during the course of this assessment. It is our professional opinion that this data gap is of low significance relative to our ability to identify recognized environmental conditions at the project site.

11.0 CONCLUSIONS AND RECOMMENDATIONS

GeoDesign performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 and all appropriate inquiries specified in 40 CFR Part 312 and the proposal to Reynolds School District #7 dated February 24, 2016 for the project site located at 17020 NE Wilkes Road in Gresham, Oregon. Any exceptions to or deletions from this practice are described in Sections 3.0 and 13.0. This assessment has revealed the following:

- The project site was entered into DEQ's LUST Program (File No. 26-01-6719) in August 2001 when soil contamination was discovered during the decommissioning of a heating oil tank. DEQ registered the report and certification by PBS and closed the file in October 2001. Although likely located in a subsurface vault south of the main building, the exact location of the former heating oil tank was not determined during the course of this assessment. GeoDesign was unable to determine whether residual soil contamination from the leaking UST remained at the project site. An addendum will be submitted regarding additional information contained in the LUST file once we receive information from DEQ.

- Two possible fill ports for an additional UST were observed at the northwestern portion of the storage building. Reportedly, the building was historically used as a residence and used oil heat. If a heating oil UST is present at this location and is out-of-service, it should be decommissioned according to federal, state, and local regulations.
- Prior to redevelopment of the project site, it would be prudent to prepare a Contaminated Media Management Plan to describe protocol for handling, management, characterization, and disposal of possible impacted media.
- The presence of the chemicals and hazardous substances stored in small quantity containers at the project site likely do not represent a recognized environmental condition at the project site. The majority of materials observed appeared to be properly stored and evidence of leaks or spills was not observed in the vicinity of these containers. However, these stored substances should be removed from the project site and properly disposed of prior to development of the project site.
- The UIC and historical septic systems associated with the project site should be properly registered and/or decommissioned in accordance with state and local regulations prior to site development. If chemical or hazardous material disposal is evident in any of the UICs or septic systems, soil samples should be collected from appropriate locations in or adjacent to these systems.

This scope of work did not include the completion of surveys for lead-based paint, asbestos-containing materials, or other hazardous building materials in the on-site structures. We understand these services have been completed by others.

12.0 DECLARATIONS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the project site. We developed and performed all the appropriate inquiries in accordance with the standards and practices set forth in 40 CFR Part 312.

13.0 LIMITATIONS

This Phase I ESA has been prepared for use by Reynolds School District #7. GeoDesign makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others. The information presented in this report is based on the above-described research and a single recent site visit. Information provided by others was relied on in our description of historical conditions and review of regulatory databases and files. The available data do not provide definitive information with regard to all past uses, operations, or incidents at the project site or adjacent properties. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property. There is always a potential that areas with contamination that were not identified during this Phase I ESA exist at the project site or in the study areas. Further evaluation of such potential would require additional research, subsurface exploration, sampling, and/or testing.

Some substances may be present in the project site vicinity in quantities or under conditions that may have led or may lead to contamination of the project site but are not included in current local, state, or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoDesign cannot be responsible if the standards of all appropriate inquiry or regulatory definitions of hazardous substance change or if you are required to meet more stringent standards in the future.

This report is not intended for use by others, and the information contained herein is not applicable to other sites. Reliance on this report by other parties is strictly at the risk of those parties, and GeoDesign will grant no third party reliance unless specifically requested in writing by our client for whom this report was prepared.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted environmental science practices for Phase I ESAs in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

♦ ♦ ♦

We appreciate the opportunity to be of service to Reynolds School District #7. Please call if you have questions regarding this report.

Sincerely,

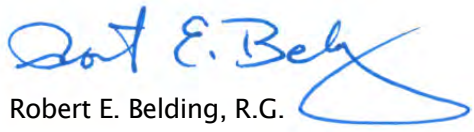
GeoDesign, Inc.



Kevin M. Cline
Environmental Staff

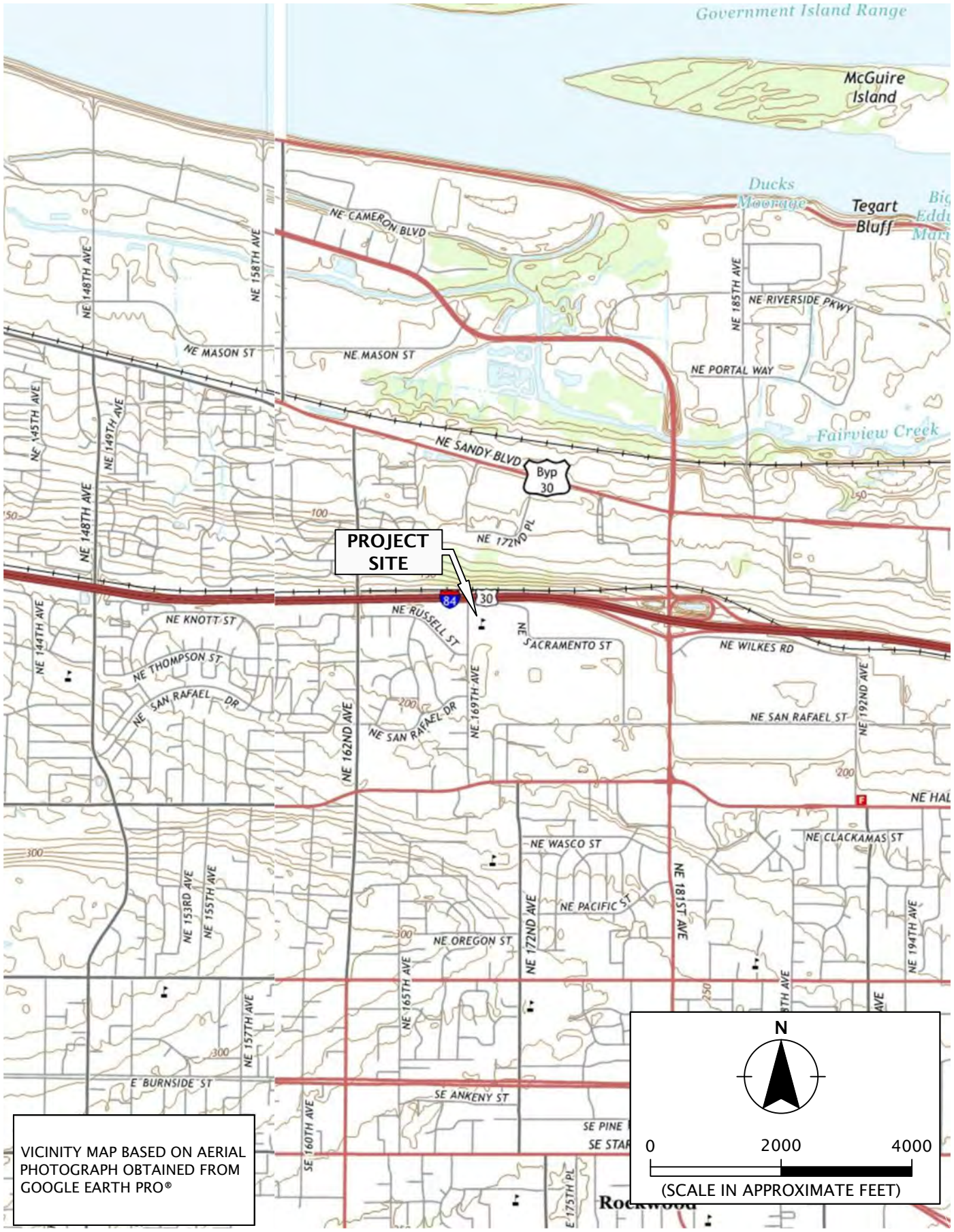


Jeremy M. Zimber
Project Manager



Robert E. Belding, R.G.
Principal Geologist

FIGURES

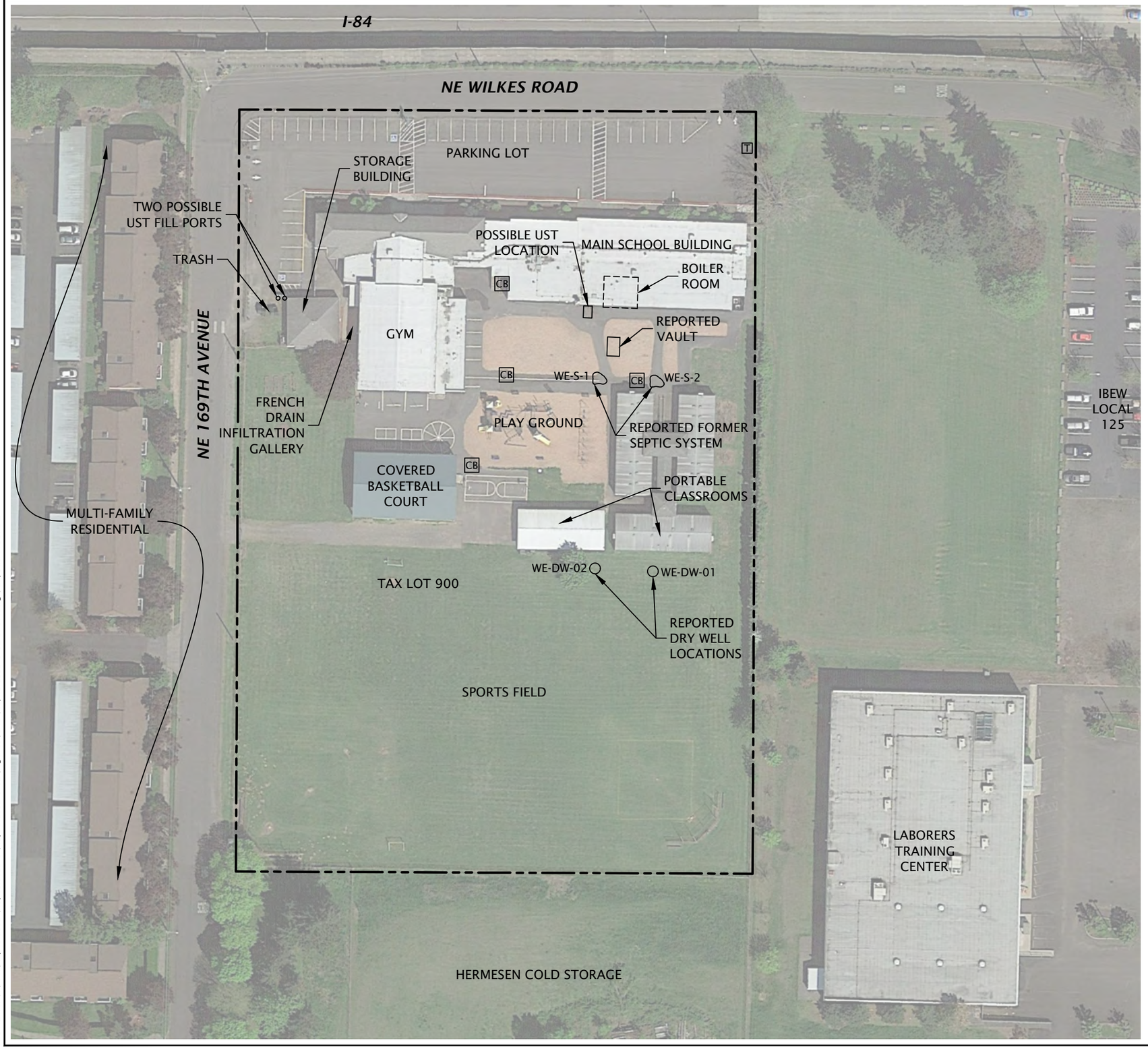


VICINITY MAP BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**VICINITY MAP**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE 1**

Printed By: aday | Print Date: 4/5/2016 4:03:33 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-vm01.dwg | Layout: FIGURE 1



LEGEND:

- T — PAD-MOUNTED TRANSFORMER
- PROJECT SITE BOUNDARY
- CB — CATCH BASIN
- WE-S-1 — ABANDONED SEPTIC SYSTEM
- WE-DW-01 — DRY WELL

N

0 80 160

(SCALE IN FEET)

SITE PLAN BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®, MARCH 31, 2016

SITE PLAN

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE 2

REYNOLDSSD-5-02

APRIL 2016

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File Name: J:\M-R\ReynoldsSD\ReynoldsSD-5\ReynoldsSD-5-02\Figures\CAD\ReynoldsSD-5-02-SP01.dwg | Layout: FIGURE 2



TWO POSSIBLE FILL PORTS LOCATED ON THE WEST SIDE OF THE EMERGENCY GENERATOR BUILDING. PHOTOGRAPH TAKEN FACING NORTH.



FUEL LINES ASSOCIATED WITH THE FORMER UST LOCATED ADJACENT TO THE BOILER.

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Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**PROJECT SITE PHOTOGRAPHS**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE 3**



A LARGE UNDERGROUND VAULT IS REPORTEDLY LOCATED UNDER THE BARK IN THE FOREGROUND. TWO UNUSED SEPTIC SYSTEM LOCATIONS ARE REPORTEDLY LOCATED UNDER THE ASPHALT ADJACENT TO THE TEMPORARY CLASSROOMS. PHOTOGRAPH TAKEN FACING SOUTHWEST.



HAZARDOUS SUBSTANCES LOCATED IN A FLAMMABLES LOCKER IN THE JANITORIAL OFFICE.

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Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**PROJECT SITE PHOTOGRAPHS**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE 4**

APPENDIX A

GEODESIGN INC

FIRM PROFILE

Employee-owned and founded in 1997, GeoDesign provides geotechnical engineering, environmental, geological, mining, and pavement design consulting services from offices in Portland and Salem, Oregon; Vancouver, Seattle, Longview, and Tacoma, Washington; and Anaheim, California. Our team consists of more than 75 engineers, geologists, engineering geologists, environmental scientists, technical personnel, and administrative staff.

From planning and design through construction, we offer consulting services in support of commercial and residential developments, industrial facilities, property transactions, regulatory compliance, and transportation and water infrastructure systems. GeoDesign works on all phases of project development, including preliminary studies for due diligence, master planning studies, siting of new structures and utility and road alignments, regulatory studies (such as NEPA documents), comprehensive investigations for final geotechnical design, oversight of environmental clean-up activities, and construction observation and testing.

We value our client relationships and are dedicated to offering exemplary service. Our focus on communication and collaboration enables us to develop a targeted approach for our clients' project needs and objectives. In providing recommendations, we clearly present the issues, alternatives, and risks in order to assist our clients in making informed decisions. As a result, much of our business comes from repeat clients and referrals.

GEODESIGN INC

ROBERT E. BELDING, RG, LG

Principal Geologist

Bob Belding is an environmental and geological expert with more than 31 years of experience managing a diverse range of projects throughout the Pacific Northwest. His experience includes Phase I and II ESAs, site characterizations, remedial investigation/feasibility studies, design and implementation of remedial actions, and close coordination with regulatory agencies. In addition, Bob serves as an expert witness and provides senior technical review of peer and other consultants' work.

Key Projects

- South Waterfront Development – Various Projects; Portland, OR
- Proposed LaVelle Landfill Development; Portland, OR
- Dorena Dam Hydroelectric Project; Lane County, OR
- City of Portland Bureau of Environmental Services, Phase II Sewer Rehabilitation Program – Rose City Park; Portland, OR
- USDA Forest Service, On-Call Hazardous Materials Services; OR and WA
- Washington County Facilities Management; On-Call Environmental Services Contract; OR
- 333 High Street NE (Sunset Center Site); Portland, OR
- Sexton Mountain Development (former Cobbs Quarry); Beaverton, OR
- City of Salem, Minto Island Pedestrian/Bicycle Bridge; Salem, OR
- Bridgeport Village Development (former Durham Quarry); Tigard/Tualatin, OR
- Ross Island Sand & Gravel Reclamation; Portland, OR
- Former Koch's Cleaners; Beaverton, OR
- The Civic Redevelopment; Portland, OR
- David Douglas School District, David Douglas High School Pool; Portland, OR
- Confederated Tribes of the Umatilla Indian Reservation, Former Landfill Area; Pendleton, OR
- Washington County, SW Greenburg Road/SW Main Street and Highway 99W Intersection Alignment; Tigard, OR
- Oregon Military Department, Field Maintenance Shop; Salem, OR
- Bellevue Towers; Bellevue, WA
- Bellevue School District, Ardmore Elementary School; Bellevue, WA
- Bellevue School District, Bellevue High School Modernization Project; Bellevue, WA
- Proposed 316 Alaskan Way Development; Seattle, WA
- 412 Broadway Apartments (Barclay Broadway); Seattle, WA
- 1800 West Fourth Plain Boulevard Site; Vancouver, WA
- Proposed Totem Lake Mall Development; Kirkland, WA
- West 11th Street and Grand Avenue Condominiums; Los Angeles, CA
- 616 Esplanade Apartments; Redondo Beach, CA
- Wilshire Center; Los Angeles, CA
- 512 Rose Avenue Mixed-Use Development (former Pioneer Bakery Site); Venice, CA
- The Beach Club; Santa Monica, CA
- 1710 Webster Street Site; Oakland, CA

Credentials/Certifications

BS, Geology, California State University, Humboldt, 1979
Registered Geologist, OR
Licensed Geologist, WA
Oregon Association of Environmental Professionals

GEODESIGN INC

JEREMY M. ZIMBER

Project Manager

Jeremy Zimber has more than 12 years of consulting experience focused primarily on environmental due diligence and remediation, environmental compliance, environmental laboratory analysis, asbestos and lead identification, and abatement. Jeremy has conducted hazardous building materials assessments and overseen abatement efforts. He has also conducted pre-demolition surveys of buildings for both asbestos-containing materials and lead-based paint. In addition, Jeremy has conducted hundreds of Phase I ESAs nationwide for the real estate and financial industries, ranging from residential to manufacturing facilities.

Key Projects

- Clackamas County, Otty Street Realignment Project; Clackamas County, OR
- Washington County, SW Roy Rogers Road and SW Scholls Ferry Road Traffic Signals; and SW Tile Flat Road and SW Scholls Ferry Road Intersection; Washington County, OR
- New Westside Christian High School; Tigard, OR
- Pacific Northwest College of Art, Proposed GSA Building Renovation; Portland, OR
- City of Lake Oswego, Foothills District Framework Plan; Lake Oswego, OR
- The Oregonian Building; Portland, OR
- Block 296 Site (NW 22nd Avenue and NW Raleigh Street); Portland, OR
- Proposed Lowes - Comprehensive Design-Level Hazardous Material Survey; Albany, OR
- Manufacturing/Distribution Facility; Salem, OR
- SE 172nd and Sunnyside Commercial Development; Happy Valley, OR
- City of Portland Bureau of Environmental Services, Former Campbell Dry Cleaners; Portland, OR
- Coos Head Abatement and Demolition Project; Coos Bay, OR
- Washington County Facilities Management, Bridgeport Village Development (former Durham Quarry); Tigard/Tualatin, OR
- Broadway Retail Building – ACM Survey; Portland; OR
- Proposed Development – 1951 SW 6th Avenue; Portland, OR
- West Bearing Housing Project; Portland, OR
- South Waterfront – Blocks 37 and 43; Portland, OR
- Colwood Industrial Park; Portland, OR
- South Cooper Mountain Site; Beaverton, OR
- ODOT/City of Tigard, SW Main Street – Highway 99 to Railroad Corridor; Tigard, OR
- Lake-Oswego-Tigard Water Partnership, Water Supply System Expansion; Clackamas/Washington County, OR
- Capitol Mall Road Site ; Olympia, WA
- 316 Alaskan Way Site; Seattle, WA
- Proposed Corona Medical Center Expansion; Corona, CA
- 1200 Ashby Avenue Site; Berkeley, CA

Credentials/Affiliations

BS, Environmental Management, Rochester Institute of Technology, 1999
AHERA Building Inspector and Project Designer
HAZWOPER Training and Annual Updates
CCB Lead-Based Paint Inspector
Respirator Fit Test

GeoDesign Inc

KEVIN CLINE

Environmental Staff

Having joined GeoDesign in December 2014, Kevin Cline has more than four years of experience in the environmental consulting field, with experience in assisting with Phase I and II ESAs, UST investigations and decommissioning, stormwater management, risk assessments, and risk-based closures. Kevin has overseen and directed the work of field project subcontractors to comply with EPA and DEQ standards. He has installed, developed, and utilized monitoring wells, injection wells, and soil vapor extraction systems in support of site characterization or contamination remediation projects.

Kevin has collected soil samples, as well as surface and groundwater samples, using a wide variety of sampling methods and equipment. Under the direction of a licensed inspector, he has collected samples of potential asbestos-containing materials and lead-based paint. And, he has collected ambient air, sub slab vapor, and soil gas samples either by air pump or pressurized canister. Kevin has also helped to bring commercial properties into DEQ UIC compliance through document review, line tracing, sampling, and dry well decommissioning. He has ensured SWPCP compliance through routine site visits and sampling during storm events.

Key Projects

- Lloyd District/Lloyd Superblock Development – Phase II; Portland, OR
- The Abigail; Portland, OR
- Proposed Totem Lake Malls; Kirkland, WA
- 110 SW Arthur Street Site; Portland, OR
- The Oregonian Building; Portland, OR
- Duck Delivery Facility; Sumner, WA
- Totem Lake Mall; Tacoma, WA
- Washington County Facilities Management, Bridgeport Village Development (Durham Quarry); Tigard/Tualatin, OR
- Washington County Facilities Management, North Durham Landfill – Phase III; Tigard, OR

Credentials/Certifications

Engineering Coursework (2009 – 2011), Portland Community College
BS, Environmental Science (emphasis in Geology and Watershed Management), Humboldt State University, 2005
ODEQ HOT Supervisor #26892
AHERA Inspector #IN-14-3265B
OSHA Hazardous Materials Training (40-Hour, Refresher)
TWIC Card
Nielson Field School Field Sampling Course (completed 2013)
Common Ground University ASTM's E1527 Phase I ESA Online Course (completed 2012)

APPENDIX B

Wilkes Elementary School
17020 NE Wilkes Road
Portland, OR 97230

Inquiry Number: 4560329.2s
March 10, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

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 (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

17020 NE WILKES ROAD
PORTLAND, OR 97230

COORDINATES

Latitude (North):	45.5412640 - 45° 32' 28.55''
Longitude (West):	122.4883300 - 122° 29' 17.98''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	539947.1
UTM Y (Meters):	5042990.5
Elevation:	184 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5992265 CAMAS, WA
Version Date:	2013
West Map:	6067232 MOUNT TABOR, OR
Version Date:	2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120706, 20110817
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
17020 NE WILKES ROAD
PORTLAND, OR 97230

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	WILKES ELEMENTARY SC	17020 WILKES RD	RGA LUST		TP
A2	WILKES ELEMENTARY SC	17020 NE WILKES RD	LUST, UST, UIC		TP
A3	WILKES ELEMENTARY SC	17020 N.E. WILKES RO	ICIS, FINDS, ECHO		TP
A4	HEATING OIL TANK	17020 WILKES RD	RGA LUST		TP
Reg	EAST MULTNOMAH COUNT		AOCONCERN	Same	4078, 0.772, ENE
Reg	COLUMBIA SLOUGH	PORTLAND RD	CERCLIS-NFRAP	Same	3086, 0.584, NNE
5	JONES SPORTS CO	17230 NE SACRAMENTO	RCRA NonGen / NLR, FINDS, ECHO	Lower	216, 0.041, ESE
6	QPM AEROSPACE	17383 NE SACRAMENTO	RCRA-CESQG, FINDS, ECHO	Lower	984, 0.186, East
7	PACIFIC AIR COMPRESS	3009 NE 172ND PL	AST, HSIS	Lower	1143, 0.216, North
B8	ALBERTSONS DISTRIBUT	17505 NE SAN RAFAEL	LUST, UST, SPILLS, HSIS, MANIFEST, NPDES	Higher	1233, 0.234, SSE
B9	ALBERTSONS DISTRIBUT	17505 NE SAN RAFAEL	RCRA-CESQG, FINDS, MANIFEST, ECHO	Higher	1233, 0.234, SSE
B10	MOORE EXCAVATION	17090 NE SAN RAFAEL	UST	Higher	1255, 0.238, SSE
11	HEATING OIL TANK	1906 NE 169TH AVENUE	LUST	Higher	1327, 0.251, South
12	HEATING OIL TANK	2525 NE 162ND AVE	LUST	Lower	1723, 0.326, West
C13	HEATING OIL TANK	1750 NE 169TH AVENUE	LUST	Higher	1734, 0.328, South
C14	HEATING OIL TANK	1730 NE 169TH AVE	LUST	Higher	1771, 0.335, South
15	HEATING OIL TANK	2241 NE 162ND AVE	LUST	Higher	1864, 0.353, WSW
16	COLUMBIA GORGE CORPO	17216 NE SANDY BLVD.	ECSI	Lower	2035, 0.385, NNE
17	HEATING OIL TANK	17111 NE SANDY	LUST	Lower	2168, 0.411, North
18	HEATING OIL TANK	16839 NE HALSEY ST	LUST	Higher	2170, 0.411, South
19	OPTI-CRAFT INC	17311 NE HALSEY ST	ECSI, HSIS	Higher	2203, 0.417, SSE
20	HEATING OIL TANK	16011 NE ROSE PKWY	LUST	Lower	2211, 0.419, WNW
21	HEATING OIL TANK	16551 NE HALSEY ST	LUST	Higher	2332, 0.442, SSW
D22	NORWEST PUBLISHING	17401 N.E. HALSEY ST	CERCLIS-NFRAP, RCRA-CESQG	Higher	2354, 0.446, SSE
D23	R R DONNELLEY NORWES	17401 NE HALSEY	ECSI, CRL, UST, AST, HSIS, UIC	Higher	2354, 0.446, SSE
E24	CEDARSOURCE II	17001 NE SANDY BLVD	LUST	Lower	2406, 0.456, NNW
E25	HEATING OIL TANK	17001 NE SANDY BLVD	LUST	Lower	2412, 0.457, NNW
26	SANDY BLVD FUEL STOP	16531 NE SANDY BLVD	ECSI, LUST, UST	Lower	2697, 0.511, NNW
27	BRIDGESTONE/FIRESTON	18120 NE WILKES RD.	ECSI, LUST, NPDES, UIC	Lower	2889, 0.547, East
28	MULTIFOODS DISTRIBUT	18332 NE SAN RAFAEL	ECSI	Higher	3427, 0.649, ESE
F29	SWIFT ADHESIVES	18408 NE SAN RAFAEL	ECSI, CRL, INST CONTROL, OR HAZMAT	Higher	3686, 0.698, ESE
F30	EAST MULTNOMAH COUNT	18408 SAN RAFAEL STR	CERCLIS, US ENG CONTROLS, US INST CONTROL, RCRA...	Higher	3686, 0.698, ESE
31	PELLA VINYL PORTLAND	18600 NE WILKES RD	ECSI, LUST, UST, AST, FINDS, HSIS, NPDES, ECHO	Lower	4207, 0.797, East
G32	HICKORY SPRINGS MANU	3900 NE 158TH AVE.	ECSI, AST, SPILLS, OR HAZMAT, HSIS, NPDES	Lower	4293, 0.813, NW
G33	ARNDT FAMILY FARM	3849 NE 158TH AVE	ECSI, LUST, VCP	Lower	4481, 0.849, NW
H34	BOEING OF PORTLAND -	19000 NE SANDY BLVD	ECSI, CRL, AST, INST CONTROL, SPILLS, OR HAZMAT,...	Lower	4561, 0.864, ENE
H35	BOEING OF PORTLAND	19000 NE SANDY BLVD	CERCLIS, CORRACTS, RCRA-LQG, US ENG CONTROLS, US...	Lower	4561, 0.864, ENE
I36	NORTHWEST RETREADERS	19004 NE SAN RAFAEL	CERCLIS, ECSI, LUST, UST, SPILLS, OR HAZMAT, HSIS,...	Higher	5097, 0.965, ESE
I37	LIBBY MCNEIL & LIBBY	19029 NE SAN RAFAEL	CERCLIS, ECSI, RCRA NonGen / NLR, FINDS, ECHO	Higher	5157, 0.977, ESE

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
WILKES ELEMENTARY SC 17020 WILKES RD PORTLAND, OR	RGA LUST Facility ID: 26-01-6719	N/A
WILKES ELEMENTARY SC 17020 NE WILKES RD PORTLAND, OR 97230	LUST Facility ID: 26-01-6719 Cleanup Complete: 10/12/2001 UST Facility ID: 5083 UIC Facility Status: Applied for permit UIC Number: 10772	N/A
WILKES ELEMENTARY SC 17020 N.E. WILKES RO PORTLAND, OR 97230	ICIS FRS ID:: 110013711233 FINDS Registry ID:: 110013711233 ECHO	N/A
HEATING OIL TANK 17020 WILKES RD PORTLAND, OR	RGA LUST Facility ID: 26-01-6719	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

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

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 CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Facilities List

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Recorded at ESCI Sites
INST CONTROL..... Institutional Controls Recorded at ESCI Sites

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Projects

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY	Recycling Facility Location Listing
HIST LF	Old Closed SW Disposal Sites
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	National Clandestine Laboratory Register
CDL	Uninhabitable Drug Lab Properties
US CDL	Clandestine Drug Labs

Local Land Records

LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Spill Database
OR HAZMAT	Hazmat/Incidents
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
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
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database 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
AIRS ---------- Oregon Title V Facility Listing
COAL ASH ---------- Coal Ash Disposal Sites Listing
DRYCLEANERS ---------- Drycleaning Facilities
Financial Assurance ---------- Financial Assurance Information Listing
HSIS ---------- Hazardous Substance Information Survey
NPDES ---------- Wastewater Permits Database
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---------- EDR Exclusive Historic Gas Stations
EDR Hist Cleaner ---------- EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS ---------- Recovered Government Archive State Hazardous Waste Facilities List
RGA LF ---------- Recovered Government Archive Solid Waste Facilities List

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.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

A review of the CERCLIS-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there

is 1 CERCLIS-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORWEST PUBLISHING	*17401 N.E. HALSEY ST*	*SSE 1/4 - 1/2 (0.446 mi.)*	*D22*	*53*

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 06/09/2015 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BOEING OF PORTLAND	*19000 NE SANDY BLVD*	*ENE 1/2 - 1 (0.864 mi.)*	*H35*	*198*

Federal RCRA generators list

RCRA-CESQG: 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 06/09/2015 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS DISTRIBUT	*17505 NE SAN RAFAEL*	*SSE 1/8 - 1/4 (0.234 mi.)*	*B9*	*34*

Lower Elevation	Address	Direction / Distance	Map ID	Page
QPM AEROSPACE	*17383 NE SACRAMENTO*	*E 1/8 - 1/4 (0.186 mi.)*	*6*	*18*

State- and tribal - equivalent CERCLIS

CRL: Sites that are or may be contaminated and may require cleanup.

A review of the CRL list, as provided by EDR, and dated 11/01/2015 has revealed that there are 3 CRL sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
R R DONNELLEY NORWES	*17401 NE HALSEY*	*SSE 1/4 - 1/2 (0.446 mi.)*	*D23*	*56*
Facility Status: Site Investigation recommended (SI)				
Facility Id: 962				
SWIFT ADHESIVES	*18408 NE SAN RAFAEL*	*ESE 1/2 - 1 (0.698 mi.)*	*F29*	*91*

Facility Status: No Further Action (Conditional)
Facility Id: 884

Lower Elevation	Address	Direction / Distance	Map ID	Page
BOEING OF PORTLAND -	***19000 NE SANDY BLVD***	***ENE 1/2 - 1 (0.864 mi.)***	***H34***	***168***
Facility Status: REMEDIAL ACTION Facility Id: 13				

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 ECSI list, as provided by EDR, and dated 01/01/2016 has revealed that there are 13 ECSI sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OPTI-CRAFT INC Investigation: No Further Action State ID Number: 1186	***17311 NE HALSEY ST***	***SSE 1/4 - 1/2 (0.417 mi.)***	***19***	***45***
R R DONNELLEY NORWES Investigation: Listed on the CRL/Inventory State ID Number: 962	***17401 NE HALSEY***	***SSE 1/4 - 1/2 (0.446 mi.)***	***D23***	***56***
MULTIFOODS DISTRIBUT Investigation: Suspect State ID Number: 2621	18332 NE SAN RAFAEL	ESE 1/2 - 1 (0.649 mi.)	28	88
SWIFT ADHESIVES Investigation: Listed on the CRL/Inventory State ID Number: 884	***18408 NE SAN RAFAEL***	***ESE 1/2 - 1 (0.698 mi.)***	***F29***	***91***
NORTHWEST RETREADERS Investigation: Suspect State ID Number: 1268	***19004 NE SAN RAFAEL***	***ESE 1/2 - 1 (0.965 mi.)***	***I36***	***322***
LIBBY MCNEIL & LIBBY Investigation: No Further Action State ID Number: 1259	***19029 NE SAN RAFAEL***	***ESE 1/2 - 1 (0.977 mi.)***	***I37***	***341***

Lower Elevation	Address	Direction / Distance	Map ID	Page
COLUMBIA GORGE CORPO Investigation: No Further Action State ID Number: 4113	17216 NE SANDY BLVD.	NNE 1/4 - 1/2 (0.385 mi.)	16	42
SANDY BLVD FUEL STOP Investigation: No Further Action State ID Number: 992	***16531 NE SANDY BLVD***	***NNW 1/2 - 1 (0.511 mi.)***	***26***	***75***
BRIDGESTONE/FIRESTON Investigation: No Further Action State ID Number: 1565	***18120 NE WILKES RD.***	***E 1/2 - 1 (0.547 mi.)***	***27***	***78***
PELLA VINYL PORTLAND Investigation: No Further Action State ID Number: 885	***18600 NE WILKES RD***	***E 1/2 - 1 (0.797 mi.)***	***31***	***125***
HICKORY SPRINGS MANU	***3900 NE 158TH AVE.***	***NW 1/2 - 1 (0.813 mi.)***	***G32***	***145***

Investigation: No Further Action
State ID Number: 984

ARNDT FAMILY FARM	***3849 NE 158TH AVE***	***NW 1/2 - 1 (0.849 mi.)***	***G33***	***161***
Investigation: No Further Action State ID Number: 4781				
BOEING OF PORTLAND -	***19000 NE SANDY BLVD***	***ENE 1/2 - 1 (0.864 mi.)***	***H34***	***168***
Investigation: Listed on the CRL/Inventory State ID Number: 13				

State and tribal leaking storage tank lists

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 LUST list, as provided by EDR, and dated 10/01/2015 has revealed that there are 12 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS DISTRIBUT Facility ID: 26-04-0158 Cleanup Complete: 03/27/2012	***17505 NE SAN RAFAEL***	***SSE 1/8 - 1/4 (0.234 mi.)***	***B8***	***27***
HEATING OIL TANK Facility ID: 26-13-1658 Cleanup Complete: 01/13/2014	1906 NE 169TH AVENUE	S 1/4 - 1/2 (0.251 mi.)	11	41
HEATING OIL TANK Facility ID: 26-03-0543	1750 NE 169TH AVENUE	S 1/4 - 1/2 (0.328 mi.)	C13	42
HEATING OIL TANK Facility ID: 26-12-0797 Cleanup Complete: 08/13/2013	1730 NE 169TH AVE	S 1/4 - 1/2 (0.335 mi.)	C14	42
HEATING OIL TANK Facility ID: 26-12-0116 Cleanup Complete: 12/24/2012	2241 NE 162ND AVE	WSW 1/4 - 1/2 (0.353 mi.)	15	42
HEATING OIL TANK Facility ID: 26-05-0645 Cleanup Complete: 07/13/2005	16839 NE HALSEY ST	S 1/4 - 1/2 (0.411 mi.)	18	44
HEATING OIL TANK Facility ID: 26-09-0005 Cleanup Complete: 04/02/2009	16551 NE HALSEY ST	SSW 1/4 - 1/2 (0.442 mi.)	21	52

Lower Elevation	Address	Direction / Distance	Map ID	Page
HEATING OIL TANK Facility ID: 26-04-0180 Cleanup Complete: 05/19/2004	2525 NE 162ND AVE	W 1/4 - 1/2 (0.326 mi.)	12	41
HEATING OIL TANK Facility ID: 26-92-5046 Cleanup Complete: 10/23/1992	17111 NE SANDY	N 1/4 - 1/2 (0.411 mi.)	17	44
HEATING OIL TANK	16011 NE ROSE PKWY	WNW 1/4 - 1/2 (0.419 mi.)	20	52

Facility ID: 26-08-0850 Cleanup Complete: 10/31/2008				
CEDARSOURCE II Facility ID: 26-02-1401 Cleanup Complete: 02/19/2003	17001 NE SANDY BLVD	NNW 1/4 - 1/2 (0.456 mi.)	E24	74
HEATING OIL TANK Facility ID: 26-02-0569 Cleanup Complete: 11/25/2002	17001 NE SANDY BLVD	NNW 1/4 - 1/2 (0.457 mi.)	E25	74

State and tribal registered storage tank lists

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 UST list, as provided by EDR, and dated 10/01/2015 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS DISTRIBUT Facility ID: 9691	***17505 NE SAN RAFAEL***	***SSE 1/8 - 1/4 (0.234 mi.)***	***B8***	***27***
MOORE EXCAVATION Facility ID: 11652	17090 NE SAN RAFAEL	SSE 1/8 - 1/4 (0.238 mi.)	B10	41

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 AST list, as provided by EDR, and dated 11/25/2015 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC AIR COMPRESS Facility Id: 041371	***3009 NE 172ND PL***	***N 1/8 - 1/4 (0.216 mi.)***	***7***	***25***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN: Oregon AOC Areas Of Concern.

A review of the AOCONCERN list, as provided by EDR, and dated 08/10/2005 has revealed that there is 1 AOCONCERN site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EAST MULTNOMAH COUNT		ENE 1/2 - 1 (0.772 mi.)	0	13

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 06/09/2015 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
JONES SPORTS CO	***17230 NE SACRAMENTO***	***ESE 0 - 1/8 (0.041 mi.)***	***5***	***14***

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EAST MULTNOMAH COUNT	***18408 SAN RAFAEL STR***	***ESE 1/2 - 1 (0.698 mi.)***	***F30***	***111***

MANIFEST: Hazardous waste manifest information.

A review of the MANIFEST list, as provided by EDR, and dated 12/31/2014 has revealed that there are 2 MANIFEST sites within approximately 0.25 miles of the target property.

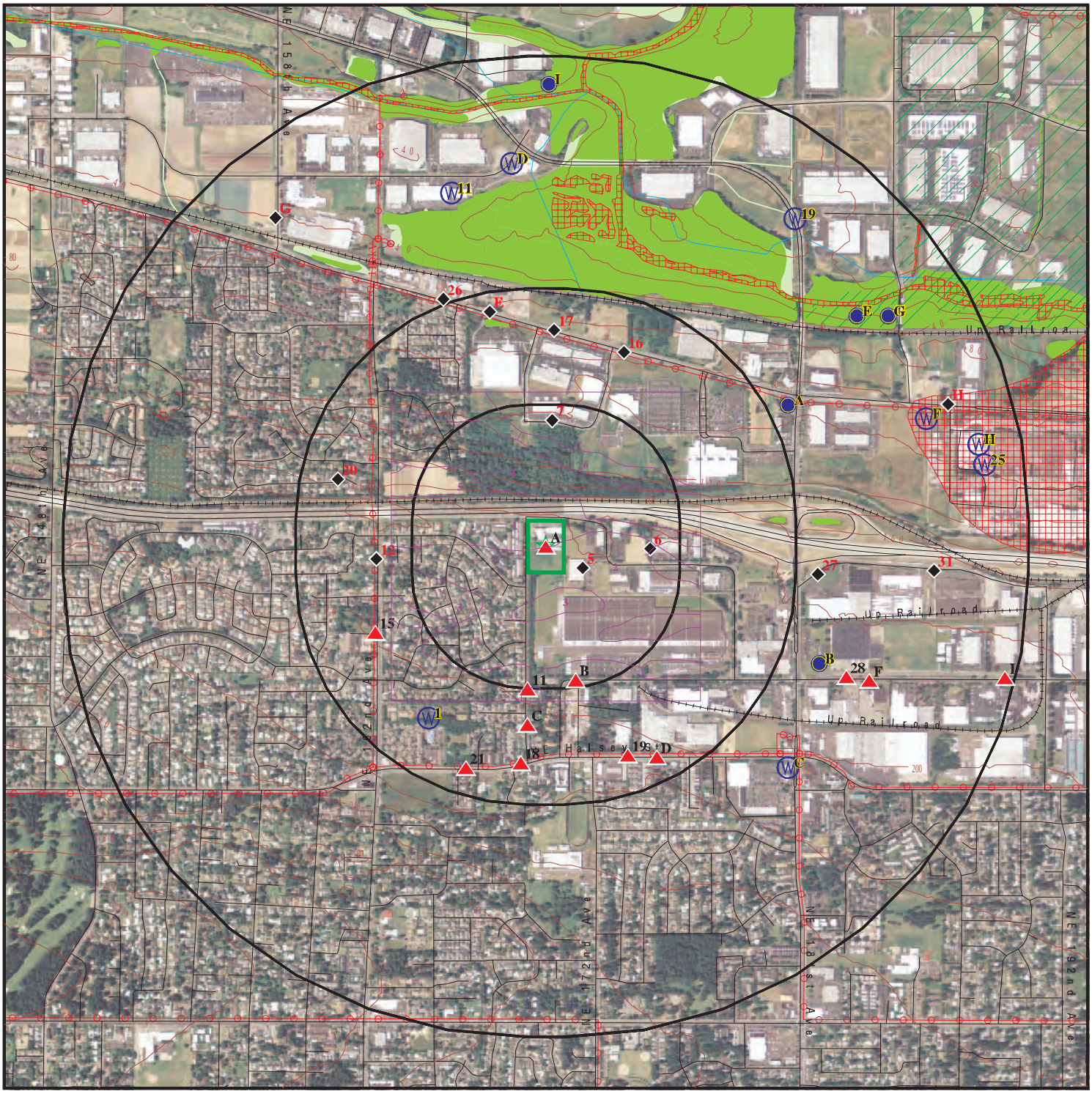
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALBERTSONS DISTRIBUT	***17505 NE SAN RAFAEL***	***SSE 1/8 - 1/4 (0.234 mi.)***	***B8***	***27***
Status: CEG Status: SQG Status: Small quantity generator EPA Id: ORD981774177				
ALBERTSONS DISTRIBUT	***17505 NE SAN RAFAEL***	***SSE 1/8 - 1/4 (0.234 mi.)***	***B9***	***34***
Status: CEG EPA Id: ORD981774177				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
TRI-MET SOUTH CORRIDOR EXTENSION	ECSI, VCP
V.A.- COLUMBIA SOUTH SHORE WELLFIE	ECSI
HEATING OIL TANK	LUST

OVERVIEW MAP - 4560329.2S



0 1/4 1/2 1 Miles

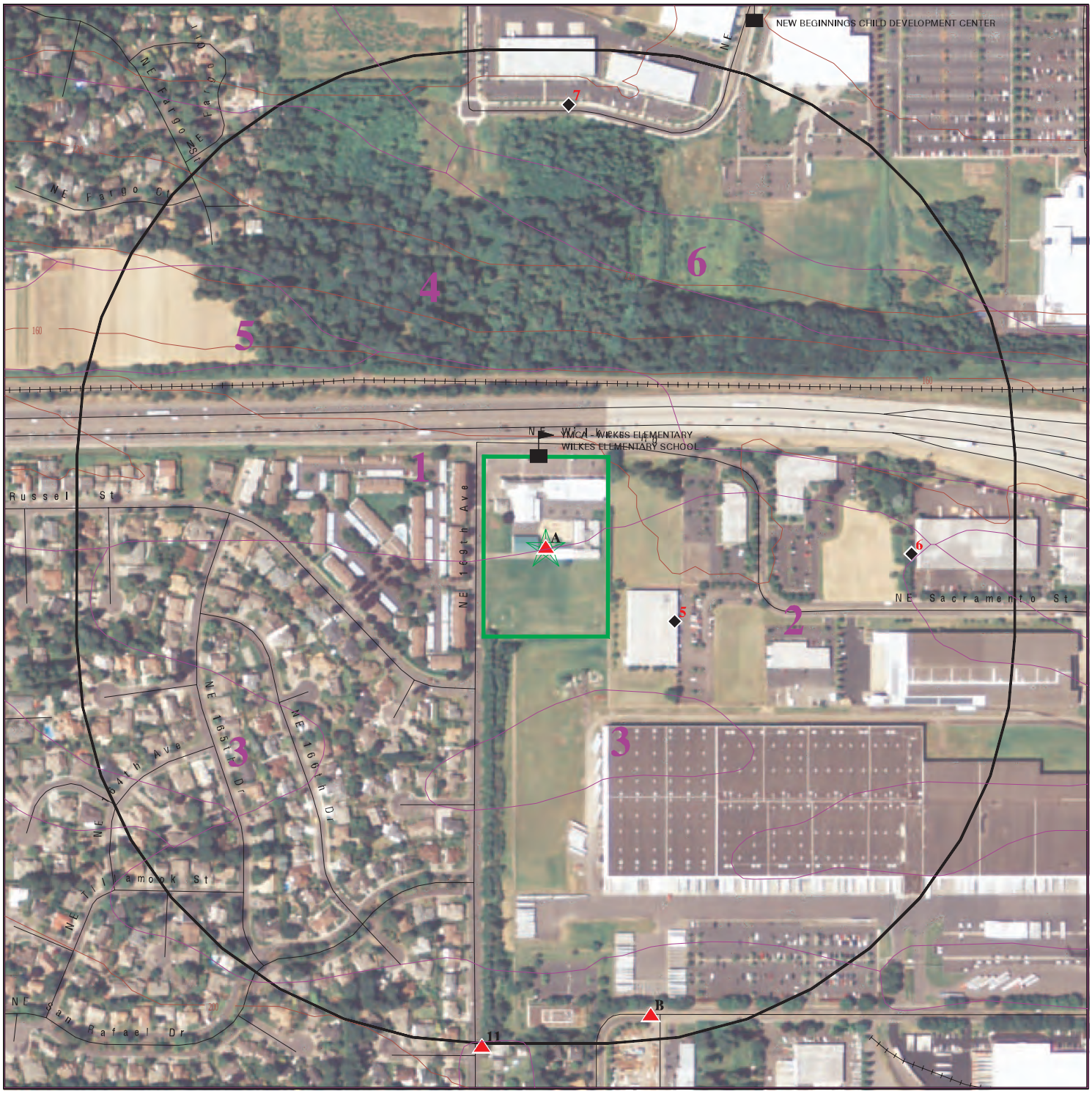
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- 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: Wilkes Elementary School	CLIENT: GeoDesign Inc.
ADDRESS: 17020 NE Wilkes Road Portland OR 97230	CONTACT: Kevin Cline INQUIRY #: 4560329.2s
LAT/LONG: 45.541264 / 122.48833	DATE: March 10, 2016 11:09 am

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DETAIL MAP - 4560329.2S



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

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

Areas of Concern

N

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: Wilkes Elementary School ADDRESS: 17020 NE Wilkes Road Portland OR 97230 LAT/LONG: 45.541264 / 122.48833	CLIENT: GeoDesign Inc. CONTACT: Kevin Cline INQUIRY #: 4560329.2s DATE: March 10, 2016 11:09 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								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERCLIS-NFRAP	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	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 CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
CRL	1.000		0	0	1	2	NR	3
ECSI	1.000		0	0	3	10	NR	13
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500	1	0	1	11	NR	NR	13
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	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	0.250	1	0	2	NR	NR	NR	3
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
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								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	1	NR	1
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
SPILLS	0.001		0	NR	NR	NR	NR	0
OR HAZMAT	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	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
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	1	NR	1
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	1	0	NR	NR	NR	NR	1
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	0.001		0	NR	NR	NR	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
FINDS	0.001	1	0	NR	NR	NR	NR	1
AIRS	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HSIS	0.001		0	NR	NR	NR	NR	0
MANIFEST	0.250		0	2	NR	NR	NR	2
NPDES	0.001		0	NR	NR	NR	NR	0
UIC	0.001	1	0	NR	NR	NR	NR	1
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	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	0.250		0	0	NR	NR	NR	0
EDR Hist Cleaner	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	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
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001	2	0	NR	NR	NR	NR	2
- Totals --		8	1	8	16	15	0	48

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **WILKES ELEMENTARY SCHOOL** **RGA LUST** **S115427151**
Target **17020 WILKES RD** **N/A**
Property **PORTLAND, OR**

Site 1 of 4 in cluster A

Actual:
184 ft.

RGA LUST:

2011	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2010	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2009	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2008	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2007	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2006	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2005	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2004	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2003	WILKES ELEMENTARY SCHOOL	17020 WILKES RD
2002	WILKES ELEMENTARY SCHOOL	17020 WILKES RD

A2 **WILKES ELEMENTARY SCHOOL** **LUST** **1000643544**
Target **17020 NE WILKES RD** **UST** **N/A**
Property **PORTLAND, OR 97230** **UIC**

Site 2 of 4 in cluster A

Actual:
184 ft.

LUST:

Region:	North Western Region
Facility ID:	26-01-6719
Cleanup Received Date:	08/14/2001
Cleanup Start Date:	08/14/2001
Cleanup Complete Date:	**10/12/2001**
Decode for Region:	**North West Region**

UST:

Facility ID:	5083
Facility Telephone:	(503) 661-7200 X219
Permittee Name:	LARRY CHRISTIAN, FACILITIES SUPERVISOR
Number of Permitted Tanks:	Not reported
Active Tanks:	Not reported
Decommissioned Tanks:	1
Number of Tanks:	1

OR UIC:

UIC Well #:	1
Type:	5D2
Type Description:	Storm Water Drainage
Status:	Active
UIC Number:	10772
Facility Status:	Applied for permit
Lat/Long:	45.541698 / -122.4883

WILKES ELEMENTARY SCHOOL (Continued) **1000643544**

UIC Well #: 2
Type: 5D2
Type Description: Storm Water Drainage
Status: Active
UIC Number: 10772
Facility Status: Applied for permit
Lat/Long: 45.541698 / -122.4883

UIC Well #: 3
Type: 5W11
Type Description: Septic Systems (undifferentiated Disposal Method)
Status: Plugged and Abandoned
UIC Number: 10772
Facility Status: Applied for permit
Lat/Long: 45.541698 / -122.4883

A3 **WILKES ELEMENTARY SCHOOL** **ICIS** **1006800492**
Target **17020 N.E. WILKES ROAD** **FINDS** **N/A**
Property **PORTLAND, OR 97230** **ECHO**

Site 3 of 4 in cluster A

Actual:
184 ft.

ICIS:
Enforcement Action ID: 10-2001-0002
FRS ID: 110013711233
Program ID: OR-DEQ 7233
Action Name: REYNOLDS SCHOOL DISTRICT
Full Address: 17020 N.E. WILKES ROAD PORTLAND OR 97230-5909
State: Oregon
Facility Name: WILKES ELEMENTARY SCHOOL
Facility Address: 17020 N.E. WILKES ROAD
PORTLAND, OR 97230-5909
Enforcement Action Type: TSCA 16 Action For Penalty
Facility County: MULTNOMAH
EPA Region #: 10

Enforcement Action ID: 10-2001-0002
FRS ID: 110013711233
Program ID: FRS 110013711233
Action Name: REYNOLDS SCHOOL DISTRICT
Full Address: 17020 N.E. WILKES ROAD PORTLAND OR 97230-5909
State: Oregon
Facility Name: WILKES ELEMENTARY SCHOOL
Facility Address: 17020 N.E. WILKES ROAD
PORTLAND, OR 97230-5909
Enforcement Action Type: TSCA 16 Action For Penalty
Facility County: MULTNOMAH
EPA Region #: 10

Program ID: FRS 110013711233
Facility Name: WILKES ELEMENTARY SCHOOL
Address: 17020 N.E. WILKES ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

WILKES ELEMENTARY SCHOOL (Continued) **1006800492**

Program ID: OR-DEQ 7233
Facility Name: WILKES ELEMENTARY SCHOOL
Address: 17020 N.E. WILKES ROAD
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

FINDS:

Registry ID: 110013711233

Environmental Interest/Information System

OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect 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.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

ECHO:

Envid: 1006800492
Registry ID: 110013711233
FIPS Code: 41051
EPA Region: 10
Indian Country Flag: N
Federal Flag: N
US Mexico Border Flag: Not reported
Chesapeake Bay Flag: Not reported
NAA Flag: Not reported
Latitude: 45.54126
Longitude: -122.48834
Map Icon: NONE-UNK-MN-N.png
Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Reference Point: CENTER OF A FACILITY OR STATION
Accuracy Meters: 30
Derived Tribes: Not reported
Derived Huc: 17090012
Derived WBD: Not reported
Derived STCT FPS: 41051

WILKES ELEMENTARY SCHOOL (Continued) **1006800492**

Derived Zip:	97230
Derived CD113:	03
Derived CB2010:	410510096051010
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	12/12/2000
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported
Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported

WILKES ELEMENTARY SCHOOL (Continued) **1006800492**

CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	10-2001-0002
FEC Number of Cases:	Not reported
FEC Last Case Date:	12/12/2000
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110013711233
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	12/12/2000
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

A4
Target Property
Actual: 184 ft.

HEATING OIL TANK
17020 WILKES RD
PORTLAND, OR

Site 4 of 4 in cluster A

RGA LUST:

2012	HEATING OIL TANK	17020 WILKES RD	

RGA LUST **S115376088**
N/A

Areas of Concern
ENE
1/2-1
4078 ft.

EAST MULTNOMAH COUNTY AREA GROUNDWATER

GRESHAM, OR 97030

AOCONCERN **1005440034**
N/A

AOCONCERN:
OR Areas of concern.

Areas of Concern
NNE
1/2-1
3086 ft.

COLUMBIA SLOUGH
PORTLAND RD
PORTLAND, OR 97218

CERCLIS-NFRAP **1003880262**
ORD980723076

CERCLIS-NFRAP:

Site ID:	1000493
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	07/01/79
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	03/01/80
Date Completed:	03/01/80
Priority Level:	Low priority for further assessment
Action:	PRELIMINARY ASSESSMENT
Date Started:	12/15/88
Date Completed:	12/15/88
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	12/15/88
Priority Level:	Not reported

5
ESE
< 1/8
0.041 mi.
216 ft.

JONES SPORTS CO
17230 NE SACRAMENTO ST
PORTLAND, OR 97230

RCRA NonGen / NLR
FINDS
ECHO

1004771411
ORQ000007856

Relative:
Lower

Actual:
183 ft.

RCRA NonGen / NLR:

Date form received by agency:	03/21/2003
Facility name:	JONES SPORTS CO
Facility address:	17230 NE SACRAMENTO ST PORTLAND, OR 97230
EPA ID:	ORQ000007856
Contact:	Not reported
Contact address:	17230 NE SACRAMENTO ST PORTLAND, OR 97230
Contact country:	US
Contact telephone:	971-230-1500
Contact email:	Not reported
EPA Region:	10
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	JONES SPORTS CO
Owner/operator address:	17230 NE SACRAMENTO ST PORTLAND, OR 97230
Owner/operator country:	US
Owner/operator telephone:	(503) 255-1410
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/21/2003
Owner/Op end date:	Not reported

Owner/operator name:	JONES SPORTS CO
Owner/operator address:	17230 NE SACRAMENTO ST PORTLAND, OR 97230
Owner/operator country:	US
Owner/operator telephone:	(503) 255-1410
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/06/1998
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No

JONES SPORTS CO (Continued) **1004771411**

Used oil transporter: No

. Waste code: NA
. Waste name: NA

Historical Generators:
Date form received by agency: 01/02/2003
Site name: JONES SPORTS CO
Classification: Not a generator, verified

Date form received by agency: 05/02/2002
Site name: JONES SPORTS CO
Classification: Not a generator, verified

Date form received by agency: 08/07/2001
Site name: JONES SPORTS CO
Classification: Not a generator, verified

Date form received by agency: 04/13/2000
Site name: JONES SPORTS CO
Classification: Not a generator, verified

Date form received by agency: 03/25/1999
Site name: JONES SPORTS CO
Classification: Not a generator, verified

Date form received by agency: 01/06/1998
Site name: JONES SPORTS CO
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

FINDS:

Registry ID: 110004814595

Environmental Interest/Information System
OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect 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.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1004771411

JONES SPORTS CO (Continued) **1004771411**

Registry ID:	110004814595
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.54037
Longitude:	-122.48657
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	Not reported
Derived STCT FPS:	41051
Derived Zip:	97230
Derived CD113:	03
Derived CB2010:	410510096051010
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported

JONES SPORTS CO (Continued) **1004771411**

CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	ORQ000007856
RCRA Permit Types:	Other
RCRA NAICS:	33992
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported

JONES SPORTS CO (Continued) **1004771411**

GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110004814595
Facility SIC Codes:	Not reported
Facility NAICS Codes:	33992
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

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6 **QPM AEROSPACE** **RCRA-CESQG** **1004771404**
East **17383 NE SACRAMENTO** **FINDS** **ORQ000007716**
1/8-1/4 **GRESHAM, OR 97230** **ECHO**
0.186 mi.
984 ft.

Relative:
Lower

Actual:
183 ft.

RCRA-CESQG:

Date form received by agency:	12/31/2008
Facility name:	QPM AEROSPACE
Facility address:	17383 NE SACRAMENTO GRESHAM, OR 97230
EPA ID:	ORQ000007716
Contact:	KEN SMITH
Contact address:	17383 NE SACRAMENTO PORTLAND, OR 97230
Contact country:	US
Contact telephone:	503 261-2770
Contact email:	Not reported
EPA Region:	10
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	QPM AEROSPACE
Owner/operator address:	17383 NE SACRAMENTO PORTLAND, 97230
Owner/operator country:	GB
Owner/operator telephone:	(503) 261-2770
Legal status:	Private

QPM AEROSPACE (Continued) **1004771404**

Owner/Operator Type: Owner
Owner/Op start date: 12/04/1997
Owner/Op end date: Not reported

Owner/operator name: QPM AEROSPACE
Owner/operator address: 17383 NE SACRAMENTO
PORTLAND, OR 97230
Owner/operator country: US
Owner/operator telephone: 503-261-2770
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1997
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: NA
. Waste name: NA

Historical Generators:
Date form received by agency: 12/31/2008
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 04/24/2007
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/31/2003
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/16/2003
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

QPM AEROSPACE (Continued) **1004771404**

Date form received by agency: 03/01/2002
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/30/2001
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/16/2000
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/25/1999
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 05/11/1998
Site name: QPM AEROSPACE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 12/04/1997
Site name: QPM AEROSPACE
Classification: Small Quantity Generator

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 02/22/2006
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110014188271

Environmental Interest/Information System

OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect 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.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

QPM AEROSPACE (Continued) **1004771404**

ECHO:

Envid:	1004771404
Registry ID:	110014188271
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.54083
Longitude:	-122.48413
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	Not reported
Derived STCT FPS:	41051
Derived Zip:	97230
Derived CD113:	03
Derived CB2010:	410510096051007
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported

QPM AEROSPACE (Continued) **1004771404**

CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	ORQ000007716
RCRA Permit Types:	CESQG
RCRA NAICS:	332710
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported

QPM AEROSPACE (Continued) **1004771404**

FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110014188271
Facility SIC Codes:	Not reported
Facility NAICS Codes:	332710
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported
Envid:	1004771404
Registry ID:	110064694317
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.54083
Longitude:	-122.48413
Map Icon:	NONE-UNK-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	CENTER OF A FACILITY OR STATION
Accuracy Meters:	30
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	Not reported
Derived STCT FPS:	41051
Derived Zip:	97230
Derived CD113:	03
Derived CB2010:	410510096051007
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	Not reported
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	Not reported
Programs in SNC:	0
Curr Compliance Status:	Not reported

QPM AEROSPACE (Continued) **1004771404**

Curr SNC Flag:	N
3yr Compliance Status:	Not reported
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	Not reported
RCRA Permit Types:	Not reported
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	Not reported
RCRA Curr Compliance Status:	Not reported
RCRA Curr SNC Flag:	N

QPM AEROSPACE (Continued) **1004771404**

RCRA 3yr Compl Qtrs Status:	Not reported
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110064694317
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

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7 **PACIFIC AIR COMPRESSORS** **AST S113702614**
North **3009 NE 172ND PL** **HSIS N/A**
1/8-1/4 **PORTLAND, OR 97230**
0.216 mi.
1143 ft.

Relative:
Lower

Actual:
102 ft.

AST:

Facility Id:	041371
Hazardous Substance:	TURBINE OIL
Reporting Quantities:	500-999
Quantity Units:	GALLONS
Physical State:	LIQUID
Storage 1:	ABOVEGROUND TANK
Storage 2:	PLASTIC BOTTLE, JUG, BUCKET

HSIS:

Facility Id:	041371
Chemical Is Extremely Hazardous Substance (EHS):	No
Department Or Division Of Company:	PACIFIC SALES & SVC INC
Facility Has Written Emergency Plan:	Yes
Contains 112R:	No
NAICS Code 1:	811310
NAICS Desc 1:	COMMERCIAL/IND MACHINERY/EQP (EXC AUTO/ELE
NAICS Code 2:	000000
NAICS Desc 2:	Not reported
Manager Name:	BART DAHLSTROM

PACIFIC AIR COMPRESSORS (Continued) **S113702614**

Business Phone:	5036742744
Mailing Address:	3009 NE 172ND PL
Mailing City,St,Zip:	PORTLAND, OR 97230
No. of Employees:	9
Day Phone:	5036742744
Placard:	Yes
Fire Dept Code:	0291
Sprinkler System:	Yes
Emergency Contact:	BART DAHLSTROM
Emergency Procedure:	INSIDE FRONT DOOR
Business Type:	SALES & REPAIRS

Facility:

Facility Id:	041371
Physical State Of The Substance:	2
Physical State:	LIQUID
Average Amount Possessed During The Year Code:	04
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:	N
Temperature Description:	PLASTIC BOTTLE, JUG, BUCKET
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:	50-199
Most Hazardous Ingridient:	DISTILLATES PETROLEUM HEAVY PARAFFINIC
United Nations/north America 4 Digit Class Number:	0000
Hazard Rank:	1
EHS Ingredient:	NONE LISTED ON MSDS
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	0000
Chemical Abstract Service Identifier Number:	64742547
Chemical Is Extremely Hazardous Substance (EHS):	No
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	Not reported

PACIFIC AIR COMPRESSORS (Continued) **S113702614**

Hazard Class 3 Of The Chemical: Not reported
Chemical Is A Toxic 313 Chemical: No
EPA Pesticide Registration Number: Not reported
Contains 112R: No
Contains EHS: No
Fertilizer: No
Pesticide: No
Contains 313: No

B8 **ALBERTSONS DISTRIBUTION CENTER #37311** **LUST U003999709**
SSE **17505 NE SAN RAFAEL ST** **UST N/A**
1/8-1/4 **PORTLAND, OR 97230** **SPILLS**
0.234 mi. **HSIS**
1233 ft. **Site 1 of 3 in cluster B** **MANIFEST**
NPDES

Relative:
Higher

Actual:
191 ft.

LUST:
Region: North Western Region
Facility ID: 26-04-0158
Cleanup Received Date: 02/10/2004
Cleanup Start Date: 02/12/2004
Cleanup Complete Date: 03/27/2012
Decode for Region: North West Region

UST:
Facility ID: 9691
Facility Telephone: (208) 395-4794
Permittee Name: Bob DeNinno
Number of Permitted Tanks: 6
Active Tanks: 6
Decommissioned Tanks: Not reported
Number of Tanks: 6

OR SPILLS:
Facility ID: 2010-0819
Incident Status: Archive
Material: RCRA-regulated materials (that were classified as such prior to the incident)
Quantity: 10
Unit of Measure: Gallons
Release Date: 04/15/2010
Description: An unknown volume of anhydrous ammonia leaked in a cold storage facilty at an Albertsons cold storage plant. A compressor in the compression room malfunctioned.
Lat/Long: 45.5371 / -122.4827
Source: Industrial Plant
Media: Not reported
Responsible Company: Not reported
Responsible Address: Not reported
Responsible City,St,Zip: Not reported

Facility ID: 2010-0819
Incident Status: Archive
Material: RCRA-regulated materials (that were classified as such prior to the incident)

ALBERTSONS DISTRIBUTION CENTER #37311 (Continued) **U003999709**

Quantity: 10
Unit of Measure: Gallons
Release Date: 04/15/2010
Description: An unknown volume of anhydrous ammonia leaked in a cold storage facilty at an Albertsons cold storage plant. A compressor in the compression room malfunctioned.
Lat/Long: 45.5371 / -122.4827
Source: Industrial Plant
Media: Suspected, unknown, or no discharge
Responsible Company: Not reported
Responsible Address: Not reported
Responsible City,St,Zip: Not reported

HSIS:
Facility Id: 018839
Chemical Is Extremely Hazardous Substance (EHS): Yes
Department Or Division Of Company: Not reported
Facility Has Written Emergency Plan: Yes
Contains 112R: Yes
NAICS Code 1: 493120
NAICS Desc 1: REFRIGERATED WAREHOUSING & STORAGE
NAICS Code 2: 000000
NAICS Desc 2: Not reported
Manager Name: BOB MILLER
Business Phone: 5032519200
Mailing Address: PO BOX 20 DEPT 81014
Mailing City,St,Zip: BOISE, ID 83726
No. of Employees: 360
Day Phone: 5032519201
Placard: Yes
Fire Dept Code: 0144
Sprinkler System: Yes
Emergency Contact: DARRELL KIDD
Emergency Procedure: SITE PORTAL / GUARD HOUSE
Business Type: GROCERY WHSE & TRANSPORT

Facility:
Facility Id: 018839
Physical State Of The Substance: 2
Physical State: LIQUID
Average Amount Possessed During The Year Code: 30
Maximum Amount Possessed During The Year Code: 30
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: 3
Pressure Description: LESS THAN NORMAL PRESSURE
Pressure of Code: Not reported
Pressure Description: Not reported
Temperature Description: LESS THAN NORMAL TEMPERATURE BUT NOT CRYOGENIC
Temperature of The Hazardous Substance Code: 6
Temperature Description: Not reported
Temperature of The Hazardous Substance Code: Not reported
Days Hazardous Substance On Site During Year: 365

ALBERTSONS DISTRIBUTION CENTER #37311 (Continued) **U003999709**

Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	10,000-49,999
Description Of The Avg Qnty Code:	10,000-49,999
Most Hazardous Ingridient:	PETROLEUM MID-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:	Acute Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	3.0
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	1993
Chemical Abstract Service Identifier Number:	68476346
Chemical Is Extremely Hazardous Substance (EHS):	No
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:	Not reported
Hazard Class 1 Of The Chemical:	3.0
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	018839
Physical State Of The Substance:	1
Physical State:	SOLID
Average Amount Possessed During The Year Code:	41
Maximum Amount Possessed During The Year Code:	41
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
Days Hazardous Substance On Site During Year:	365
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	250,000-499,999
Description Of The Avg Qnty Code:	250,000-499,999

ALBERTSONS DISTRIBUTION CENTER #37311 (Continued) **U003999709**

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:

United Nations/north America 4 Digit Class Number:	2794
Chemical Abstract Service Identifier Number:	7664939
Chemical Is Extremely Hazardous Substance (EHS):	No
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 Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	Yes
Fertilizer:	No
Pesticide:	No
Contains 313:	Yes

Facility Id:	018839
Physical State Of The Substance:	2
Physical State:	LIQUID
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	20
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:	1,000-4,999
Description Of The Avg Qnty Code:	500-999
Most Hazardous Ingridient:	PETROLEUM HYDROCARBONS
United Nations/north America 4 Digit Class Number:	0000
Hazard Rank:	2

ALBERTSONS DISTRIBUTION CENTER #37311 (Continued) **U003999709**

EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Chronic Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	6.4
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	0000
Chemical Abstract Service Identifier Number:	64742547
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Chronic Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	6.4
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	Not reported
EPA Pesticide Registration Number:	Not reported
Contains 112R:	Not reported
Contains EHS:	Not reported
Fertilizer:	No
Pesticide:	No
Contains 313:	Not reported

Facility Id:	018839
Physical State Of The Substance:	1
Physical State:	SOLID
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:	K
Description:	BOX
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
Most Hazardous Ingridient:	POTASSIUM CHLORATE
United Nations/north America 4 Digit Class Number:	1944
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON MSDS
Substance Pure:	False
Substance Mix:	True

ALBERTSONS DISTRIBUTION CENTER #37311 (Continued) **U003999709**

First Hazardous Class Code For Chemical:	Flammable Solids
Second Hazardous Class Code For Chemical:	Oxidizers
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.1
Hazard Class 2 Of The Chemical:	5.1
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	1944
Chemical Abstract Service Identifier Number:	7704349
Chemical Is Extremely Hazardous Substance (EHS):	No
First Hazardous Class Code For Chemical:	Flammable Solids
Second Hazardous Class Code For Chemical:	Oxidizers
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.1
Hazard Class 2 Of The Chemical:	5.1
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

OR MANIFEST:

Manifest Year:	Manifest Year - 2014
EPA Id:	ORD981774177
Inactive Status:	Not reported
Organization Name:	Albertsons LLC
Contact Name:	Erica Fransen
Contact Telephone Number:	Not reported
Mailing Address:	PO Box 20, Dept. 72405
Mailing City/State/Zip:	Boise, ID 83726

Manifest:

Year :	2012
RCRA Id :	ORD981774177
Inactive :	Not reported
Status:	Small quantity generator
Manifest :	005482434FLE
Ship Date :	10/04/2012
TSD :	INR000110197
WS Num:	1
Transporter:	MNS000110924
Ship Qty :	Not reported
Rpt Unit :	Not reported
Off Mng :	H121
EPA Waste Codes:	D002
Waste Description:	Waste Liquids (D002)
Total Amt Of Waste Stream Generated in Reporting Yr 1:	Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2:	Not reported

ALBERTSONS DISTRIBUTION CENTER #37311 (Continued) **U003999709**

Year : 2012
RCRA Id : ORD981774177
Inactive : Not reported
Status: Small quantity generator
Manifest : 005482434FLE
Ship Date : 10/04/2012
TSD : INR000110197
WS Num: 2
Transporter: MNS000110924
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001
Waste Description: Waste Liquids (D001)
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD981774177
Inactive : Not reported
Status: Small quantity generator
Manifest : 005482434FLE
Ship Date : 10/04/2012
TSD : INR000110197
WS Num: 3
Transporter: MNS000110924
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: D001
Waste Description: Waste Aerosols (D001)
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

NPDES:
WQ File Nbr: 104374
Legal Name: ABS OR-O DC LLC
Region: NWR
Pri SIC: 4225
Facility Type: GENERAL WAREHOUSING & STORAGE
Latitude: 45.538
Longitude: -122.4808
Category: STM
Permit Type: G12COLS
Permit Active: True
Is Active?: Not reported
Permit Description: Stormwater; NPDES discharge to Columbia Slough
Expiration Date: 09/30/2016
EPA Number: ORR801062
UIC Facility: False
Admin Agent: NW Region Office
Last Action Date: 05/07/2013
Permit Writer: Murphy
Compliance Inspector: Murphy
DMR Reviewer: Murphy
Application Number: 961680

ALBERTSONS DISTRIBUTION CENTER #37311 (Continued) **U003999709**

Class:	N/A
Start Date:	12/28/1999
Region Decode:	North West Region
WQ File Nbr:	104374
Legal Name:	ABS OR-O DC LLC
Region:	Not reported
Pri SIC:	4225
Facility Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Category:	Not reported
Permit Type:	GEN12T
Permit Active:	Not reported
Is Active?:	FALSE
Permit Description:	Not reported
Expiration Date:	Not reported
EPA Number:	Not reported
UIC Facility:	Not reported
Admin Agent:	Not reported
Last Action Date:	Not reported
Permit Writer:	Not reported
Compliance Inspector:	Not reported
DMR Reviewer:	Not reported
Application Number:	Not reported
Class:	Not reported
Start Date:	Not reported
Region Decode:	Not reported

B9 **ALBERTSONS DISTRIBUTION CENTER** **RCRA-CESQG** **1004770313**
SSE **17505 NE SAN RAFAEL STREET** **FINDS** **ORD981774177**
1/8-1/4 **PORTLAND, OR 97230** **MANIFEST**
0.234 mi. **ECHO**
1233 ft. **Site 2 of 3 in cluster B**

Relative:
Higher

Actual:
191 ft.

RCRA-CESQG:

Date form received by agency:	12/31/2014
Facility name:	ALBERTSONS DC NO 8252/37311
Facility address:	17505 NE SAN RAFAEL ST PORTLAND, OR 97230
EPA ID:	ORD981774177
Mailing address:	PO BOX 20, DEPT. 72405 BOISE, ID 83726
Contact:	TERRY PIERSON
Contact address:	17505 NE SAN RAFAEL PORTLAND, OR 97230
Contact country:	US
Contact telephone:	(503) 251-9290
Contact email:	TERRY.PIERSON@ALBERTSONS.COM
EPA Region:	10
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any

ALBERTSONS DISTRIBUTION CENTER (Continued) **1004770313**

land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: ALBERTSONS LLC
Owner/operator address: 17505 NE SAN RAFAEL ST
PORTLAND, OR 97230
Owner/operator country: US
Owner/operator telephone: (503) 251-9201
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/31/2014
Owner/Op end date: Not reported

Owner/operator name: ALBERTSONS LLC
Owner/operator address: PO BOX 20 DEPT 72405
BOISE, ID 83726
Owner/operator country: US
Owner/operator telephone: 208 395-4793
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/31/2014
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: NA
. Waste name: NA

Historical Generators:
Date form received by agency: 12/31/2013
Site name: ALBERTSONS DC NO 8252/37311
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: NA

ALBERTSONS DISTRIBUTION CENTER (Continued) **1004770313**

. Waste name: NA

Date form received by agency: 06/19/2013
Site name: ALBERTSONS DC NO 8252/37311
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 06/19/2013
Site name: ALBERTSONS DC NO 8252/37311
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: NA
. Waste name: NA

Date form received by agency: 06/19/2013
Site name: ALBERTSONS DC NO 8252/37311
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 03/21/2013
Site name: ALBERTSONS DC NO 8252/37311
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/31/2012
Site name: NEW ALBERTSONS INC
Classification: Small Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/31/2012
Site name: NEW ALBERTSONS INC
Classification: Small Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/31/2003
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/06/2003
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

ALBERTSONS DISTRIBUTION CENTER (Continued) **1004770313**

Date form received by agency: 02/01/2002
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/16/2001
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/25/2000
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/29/1999
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/04/1998
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/17/1997
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/02/1996
Site name: ALBERTSONS DIST CTR
Classification: Small Quantity Generator

Date form received by agency: 02/23/1995
Site name: ALBERTSONS DIST CTR
Classification: Small Quantity Generator

Date form received by agency: 01/19/1994
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/01/1992
Site name: ALBERTSONS DIST CTR
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/16/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110000556951

Environmental Interest/Information System
OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect the quality of Oregon's Environment. DEQ uses a combination of technical assistance, inspections and

ALBERTSONS DISTRIBUTION CENTER (Continued) **1004770313**

permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

OR MANIFEST:

Manifest Year:	Manifest Year - 2004
EPA Id:	ORD981774177
Inactive Status:	Not reported
Organization Name:	Not reported
Contact Name:	Jamie Hansen
Contact Telephone Number:	(503) 251-9290
Mailing Address:	17505 NE San Rafael
Mailing City/State/Zip:	Portland, OR 97230

ECHO:

Envid:	1004770313
Registry ID:	110000556951
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	N
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.538925
Longitude:	-122.484276
Map Icon:	RCRA-IC-MN-1.png

ALBERTSONS DISTRIBUTION CENTER (Continued) **1004770313**

Collection Method:	INTERPOLATION-PHOTO
Reference Point:	FACILITY CENTROID
Accuracy Meters:	9
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	170900120201
Derived STCT FPS:	41051
Derived Zip:	97230
Derived CD113:	03
Derived CB2010:	410510096051010
Percent Minority:	38.758
Pop Den:	4440.93
Major Flag:	Not reported
Active Flag:	Y
MYRTK Universe:	NNN
Inspection Count:	1
Date Last Inspection:	10/16/2014
Days Last Inspection:	339
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	04/29/2010
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	04/29/2010
Last Penalty Amount:	1330
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	1
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported

ALBERTSONS DISTRIBUTION CENTER (Continued) **1004770313**

CWA SICS: Not reported
CWA Inspection Count: Not reported
CWA Days Last Inspection: Not reported
CWA Informal Count: Not reported
CWA Formal Action Count: Not reported
CWA Date Last Formal Action: Not reported
CWA Penalties: Not reported
CWA Last Penality Date: Not reported
CWA Last Penality Amount: Not reported
CWA Qtrs in NC: Not reported
CWA Curr Compliance Status: Not reported
CWA Curr SNC Flag: N
CWA 13QTRS Compl Status: Not reported
CWA 13QTRS EFFLNT Exceedances: Not reported
CWA 3tr QNCR Codes: Not reported
RCRA IDS: ORD981774177
RCRA Permit Types: CESQG
RCRA NAICS: 493120
RCRA Inspection Count: 1
RCRA Days Last Evaluation: 339
RCRA Informal Count: Not reported
RCRA Formal Action Count: Not reported
RCRA Date Last Formal Action: Not reported
RCRA Penalties: Not reported
RCRA Last Penality Date: Not reported
RCRA Last Penality Amount: Not reported
RCRA QTRS in NC: 0
RCRA Curr Compliance Status: No Violation
RCRA Curr SNC Flag: N
RCRA 3yr Compl Qtrs Status:
SDWA IDS: Not reported
SDWA System Types: Not reported
SDWA Informal Count: Not reported
SDWA Formal Action Count: Not reported
SDWA Curr Compliance Status: Not reported
SDWA Curr SNC Flag: N
TRI IDS: Not reported
TRI Releases Transfers: Not reported
TRI on Site Releases: Not reported
Tri off Site Transfers: Not reported
TRI Reporter in Past: Not reported
FEC Case IDS: 10-2010-0139
FEC Number of Cases: Not reported
FEC Last Case Date: 04/29/2010
FEC Total Penalties: Not reported
GHG IDS: Not reported
GHG CO2 Release: Not reported
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110000556951
Facility SIC Codes: Not reported
Facility NAICS Codes: 493120 49312
Facility Date Last Inspection EPA: 06/11/2014
Facility Date Last Inspection State: 10/16/2014
Facility Date Last Formal ACT EPA: 04/29/2010
Facility Date Last Formal ACT ST: Not reported
Facility Date Last Inforamal ACT EPA: Not reported
Facility Date Last Informal ACT ST: Not reported
Facility Federal Agency: Not reported

ALBERTSONS DISTRIBUTION CENTER (Continued) **1004770313**

TRI Reporter: Not reported
Facility IMP Water Flag: Not reported

B10
SSE
1/8-1/4
0.238 mi.
1255 ft.

MOORE EXCAVATION **UST** **U004239925**
17090 NE SAN RAFAEL **N/A**
PORTLAND, OR 97230

Site 3 of 3 in cluster B

Relative:
Higher

Actual:
192 ft.

UST:
Facility ID: 11652
Facility Telephone: (503)252-1180
Permittee Name: ROBERT WALSH
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 1
Number of Tanks: 1

11
South
1/4-1/2
0.251 mi.
1327 ft.

HEATING OIL TANK **LUST** **S115330718**
1906 NE 169TH AVENUE **N/A**
GRESHAM, OR 97230

Relative:
Higher

Actual:
196 ft.

LUST:
Region: North Western Region
Facility ID: 26-13-1658
Cleanup Received Date: 12/19/2013
Cleanup Start Date: Not reported
Cleanup Complete Date: 01/13/2014
Decode for Region: North West Region

12
West
1/4-1/2
0.326 mi.
1723 ft.

HEATING OIL TANK **LUST** **S106475252**
2525 NE 162ND AVE **N/A**
PORTLAND, OR 97230

Relative:
Lower

Actual:
183 ft.

LUST:
Region: North Western Region
Facility ID: 26-04-0180
Cleanup Received Date: 02/17/2004
Cleanup Start Date: 02/17/2004
Cleanup Complete Date: 05/19/2004
Decode for Region: North West Region

C13
South
1/4-1/2
0.328 mi.
1734 ft.

HEATING OIL TANK
1750 NE 169TH AVENUE
GRESHAM, OR 97230

Site 1 of 2 in cluster C

Relative:
Higher

Actual:
205 ft.

LUST:

Region:	North Western Region
Facility ID:	26-03-0543
Cleanup Received Date:	03/24/2003
Cleanup Start Date:	03/25/2003
Cleanup Complete Date:	**Not reported**
Decode for Region:	**North West Region**

LUST **S105856505**
N/A

C14
South
1/4-1/2
0.335 mi.
1771 ft.

HEATING OIL TANK
1730 NE 169TH AVE
PORTLAND, OR 97230

Site 2 of 2 in cluster C

Relative:
Higher

Actual:
205 ft.

LUST:

Region:	North Western Region
Facility ID:	26-12-0797
Cleanup Received Date:	07/17/2012
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**08/13/2013**
Decode for Region:	**North West Region**

LUST **S112225353**
N/A

15
WSW
1/4-1/2
0.353 mi.
1864 ft.

HEATING OIL TANK
2241 NE 162ND AVE
PORTLAND, OR 97230

Relative:
Higher

Actual:
197 ft.

LUST:

Region:	North Western Region
Facility ID:	26-12-0116
Cleanup Received Date:	02/08/2012
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**12/24/2012**
Decode for Region:	**North West Region**

LUST **S111834706**
N/A

16
NNE
1/4-1/2
0.385 mi.
2035 ft.

COLUMBIA GORGE CORPORATE CENTER
17216 NE SANDY BLVD.
PORTLAND, OR 97230

Relative:
Lower

Actual:
76 ft.

ECSI:

State ID Number:	4113
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	97789
Further Action:	0

ECSI **S108169726**
N/A

COLUMBIA GORGE CORPORATE CENTER (Continued) **S108169726**

Lat/Long (dms): 45 32 48.80 / -122 29 13.60
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 29
Qtr Section: Not reported
Tax Lots: Not reported
Size: 38 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 03/02/2009
Created Date: 04/19/2004
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Not reported
Alias Name: Gateway Corporate Center
Alias Name: Corporate Park

Narrative:

NARR ID: 5748452
NARR Code: Project Type
Created By: GWISTAR
Created Date: 08/10/2006
Updated By: GWISTAR
Updated Date: 08/10/2006
Decode for NarcdID: Project Type
NARR Comments: OECDD Industrial Lands review.

NARR ID: 5748418
NARR Code: Remedial Action
Created By: GWISTAR
Created Date: 08/10/2006
Updated By: GWISTAR
Updated Date: 08/10/2006
Decode for NarcdID: Remedial Action
NARR Comments: (12/15/04 J. Waggy/SAS) DEQ has reviewed a Phase I ESA for this property and determined that no further action is needed.

NARR ID: 5749667
NARR Code: 1922
Created By: GWISTAR
Created Date: 08/28/2007
Updated By: GWISTAR
Updated Date: 08/28/2007
Decode for NarcdID: Current Site Summary Statement
NARR Comments: DEQ reviewed a Phase I Environmental Site Assessment in 2004, and concluded that an NFA determination for the property was appropriate.

Administrative Action:

Action ID: 9424
Region: Not reported

COLUMBIA GORGE CORPORATE CENTER (Continued) **S108169726**

Complete Date: 04/19/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 04/19/2004
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: 9443
Region: Northwestern Region
Complete Date: 12/15/2004
Rank Value: Not reported
Cleanup Flag: False
Created Date: 08/10/2006
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: OECDD Industrial Lands review.

---

17 **HEATING OIL TANK** **LUST** **S100498021**
North **17111 NE SANDY** **N/A**
1/4-1/2 **PORTLAND, OR 97230**
0.411 mi.
2168 ft.

Relative:
Lower

Actual:
66 ft.

LUST:
Region: North Western Region
Facility ID: 26-92-5046
Cleanup Received Date: 02/11/1992
Cleanup Start Date: 02/11/1992
Cleanup Complete Date: 10/23/1992
Decode for Region: North West Region

---

18 **HEATING OIL TANK** **LUST** **S107134965**
South **16839 NE HALSEY ST** **N/A**
1/4-1/2 **PORTLAND, OR 97230**
0.411 mi.
2170 ft.

Relative:
Higher

Actual:
209 ft.

LUST:
Region: North Western Region
Facility ID: 26-05-0645
Cleanup Received Date: 04/05/2005
Cleanup Start Date: 04/08/2005
Cleanup Complete Date: 07/13/2005
Decode for Region: North West Region

19
SSE
1/4-1/2
0.417 mi.
2203 ft.

OPTI-CRAFT INC
17311 NE HALSEY ST
PORTLAND, OR 97230

ECSI **S103419518**
HSIS **N/A**

Relative:
Higher

Actual:
209 ft.

ECSI:

State ID Number:	1186
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	832
Investigation:	No Further Action
FACA ID:	8977
Further Action:	0
Lat/Long (dms):	45 32 6.70 / -122 29 6.40
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	30
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	3.5 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	06/23/2011
Created Date:	03/18/1992
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under state or federal authority

Alias Name: Essilor Laboratories of America, Inc.

Narrative:

NARR ID:	5732004
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: (6/15/94 KPD/SRS) Soil and groundwater sampling was performed at the site in 1991 as part of an Environmental Property Evaluation. Boreholes were drilled near a former UST that once held unleaded gasoline. ***Waste oil*** was detected in the soil at concentrations up to 250 ppm. The Matrix Level 2 cleanup standard is 500 ppm. No VOCs were detected in the groundwater.

NARR ID:	5732005
NARR Code:	Data Sources
Created By:	Not reported
Created Date:	12/17/2002
Updated By:	Not reported
Updated Date:	12/17/2002

OPTI-CRAFT INC (Continued) **S103419518**

Decode for NarcdID: Data Sources
NARR Comments: 1) Environmental Property Evaluation report. 2) Correspondence FROM owner/operator. 3) Laboratory reports. 4) Project Manager files.

NARR ID: 5732006
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

NARR ID: 5732007
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 not known.

NARR ID: 5732008
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 site is located in the East Multnomah County Groundwater Study Area (ECSI #1479). Deep sand and gravel aquifers in the area (the Troutdale Aquifers) are contaminated with industrial solvents. These aquifers are also used for primary and backup municipal water supplies. Studies are ongoing to determine the sources and extent of the contamination. A soil-gas survey performed as part of these studies identified TCA and cis-1,3-dichloropropene at the Opti-Craft site, but the results could not be confirmed.

NARR ID: 5732009
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: (6/15/94 KPD/SRS) There is not enough evidence of contamination at this site to warrant further site-specific investigation. However, sampling may still be performed on-site as part of the ongoing investigation into the East Multnomah County area-wide groundwater contamination. (KAC/SRS) NFA letter sent 6/17/94.

NARR ID: 5732010
NARR Code: Substances of Concern
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002

OPTI-CRAFT INC (Continued) **S103419518**

Decode for NarcdID: Substances of Concern
NARR Comments: TCA

Administrative Action:
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: 9443
Region: Northwestern Region
Complete Date: 06/19/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 02/25/1992
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: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 02/26/1992
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

OPTI-CRAFT INC (Continued) **S103419518**

Comments: Not reported

Action ID: 9449
Region: Headquarters
Complete Date: 06/19/1994
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: 02/28/1992
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: Not reported
Comments: Not reported

Action ID: 9456
Region: Headquarters
Complete Date: 06/17/1994
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: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132492
Operation Status: Active
Common Name: Opti-Craft
Yrs of Operation: late 1970s to present
Comments: Grinding and polishing of glass lenses
Updated Date: 03/13/1995
Updated By: jxh
Decode for OpstatID: Active
Operations SIC Id: 196171
SIC Code: 3827
Created By: Not reported
Created Date: 12/17/2002

OPTI-CRAFT INC (Continued) **S103419518**

HSIS:

Facility Id:	008107
Chemical Is Extremely Hazardous Substance (EHS):	No
Department Or Division Of Company:	ELOA CORP
Facility Has Written Emergency Plan:	Yes
Contains 112R:	No
NAICS Code 1:	339115
NAICS Desc 1:	OPHTHALMIC GOODS MFG
NAICS Code 2:	423460
NAICS Desc 2:	OPHTHALMIC GOODS WHSLE
Manager Name:	BRANDON BUTLER
Business Phone:	5032565330
Mailing Address:	17311 NE HALSEY ST
Mailing City,St,Zip:	PORTLAND, OR 97230
No. of Employees:	84
Day Phone:	5032565330
Placard:	No
Fire Dept Code:	0144
Sprinkler System:	Yes
Emergency Contact:	AHMED ABDEL MALEK
Emergency Procedure:	CONFERENCE ROOM
Business Type:	MFG & WHSLE LABORATORY EQUIPMENT

Facility:

Facility Id:	008107
Physical State Of The Substance:	3
Physical State:	GAS
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	3
Description Of The Unit Of Measure:	CUBIC FEET
Type Code:	L
Description:	CYLINDER
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:	ARGON
United Nations/north America 4 Digit Class Number:	1006
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON MSDS
Substance Pure:	True
Substance Mix:	False
First Hazardous Class Code For Chemical:	Non-flammable Gas
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	2.2

OPTI-CRAFT INC (Continued) **S103419518**

Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	1006
Chemical Abstract Service Identifier Number:	7440371
Chemical Is Extremely Hazardous Substance (EHS):	No
First Hazardous Class Code For Chemical:	Non-flammable Gas
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	2.2
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	008107
Physical State Of The Substance:	3
Physical State:	GAS
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	3
Description Of The Unit Of Measure:	CUBIC FEET
Type Code:	L
Description:	CYLINDER
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:	OXYGEN
United Nations/north America 4 Digit Class Number:	1072
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	True
Substance Mix:	False
First Hazardous Class Code For Chemical:	Oxidizers
Second Hazardous Class Code For Chemical:	Non-flammable Gas
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	5.1
Hazard Class 2 Of The Chemical:	2.2
Hazard Class 3 Of The Chemical:	Not reported

OPTI-CRAFT INC (Continued) **S103419518**

Chemical:

United Nations/north America 4 Digit Class Number:	1072
Chemical Abstract Service Identifier Number:	7782447
Chemical Is Extremely Hazardous Substance (EHS):	No
First Hazardous Class Code For Chemical:	Oxidizers
Second Hazardous Class Code For Chemical:	Non-flammable Gas
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	5.1
Hazard Class 2 Of The Chemical:	2.2
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	008107
Physical State Of The Substance:	1
Physical State:	SOLID
Average Amount Possessed During The Year Code:	20
Maximum Amount Possessed During The Year Code:	20
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	J
Description:	BAG
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:	1,000-4,999
Most Hazardous Ingridient:	SODIUM CHLORIDE
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:	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

Chemical:

United Nations/north America 4 Digit Class Number:	Not reported

OPTI-CRAFT INC (Continued) **S103419518**

Chemical Abstract Service Identifier Number:	7647145
Chemical Is Extremely Hazardous Substance (EHS):	No
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
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

20
WNW
1/4-1/2
0.419 mi.
2211 ft.

HEATING OIL TANK **LUST** **S109347210**
16011 NE ROSE PKWY **N/A**
PORTLAND, OR 97230

Relative:
Lower

Actual:
156 ft.

LUST:

Region:	North Western Region
Facility ID:	26-08-0850
Cleanup Received Date:	07/10/2008
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**10/31/2008**
Decode for Region:	**North West Region**

21
SSW
1/4-1/2
0.442 mi.
2332 ft.

HEATING OIL TANK **LUST** **S109578028**
16551 NE HALSEY ST **N/A**
PORTLAND, OR 97230

Relative:
Higher

Actual:
211 ft.

LUST:

Region:	North Western Region
Facility ID:	26-09-0005
Cleanup Received Date:	01/05/2009
Cleanup Start Date:	Not reported
Cleanup Complete Date:	**04/02/2009**
Decode for Region:	**North West Region**

D22 **NORWEST PUBLISHING** **CERCLIS-NFRAP** **1015735973**
SSE **17401 N.E. HALSEY ST.** **RCRA-CESQG** **ORD044108603**
1/4-1/2 **PORTLAND, OR 97203**
0.446 mi.
2354 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
208 ft.

CERCLIS-NFRAP:
Site ID: 1001251
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT
Date Started: 06/06/89
Date Completed: 06/06/89
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 06/06/89
Priority Level: Not reported

Action: DISCOVERY
Date Started: / /
Date Completed: 09/15/88
Priority Level: Not reported

RCRA-CESQG:
Date form received by agency: 12/31/2003
Facility name: R R DONNELLEY NORWEST INC
Facility address: 17401 NE HALSEY ST
PORTLAND, OR 97230
EPA ID: ORD044108603
Contact: TIM HEMSTREET
Contact address: 17401 NE HALSEY ST
PORTLAND, OR 97230
Contact country: US
Contact telephone: 503 251 3510
Contact email: Not reported
EPA Region: 10
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

NORWEST PUBLISHING (Continued) **1015735973**

Owner/Operator Summary:
Owner/operator name: R R DONNELLEY NORWEST INC
Owner/operator address: 17401 NE HALSEY ST
PORTLAND, OR 97230
Owner/operator country: US
Owner/operator telephone: (503) 255-2455
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/31/2003
Owner/Op end date: Not reported

Owner/operator name: R R DONNELLEY NORWEST INC
Owner/operator address: 17401 NE HALSEY ST
PORTLAND, OR 97230
Owner/operator country: US
Owner/operator telephone: (503) 255-2455
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/01/1993
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: Yes
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: NA
. Waste name: NA

Historical Generators:
Date form received by agency: 01/21/2003
Site name: R R DONNELLEY NORWEST INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/10/2002
Site name: R R DONNELLEY NORWEST INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/02/2001
Site name: R R DONNELLEY NORWEST INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/16/2000
Site name: R R DONNELLEY NORWEST INC

NORWEST PUBLISHING (Continued) **1015735973**

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/08/1999
Site name: R R DONNELLEY NORWEST INC
Classification: Small Quantity Generator

Date form received by agency: 03/03/1998
Site name: R R DONNELLEY NORWEST INC
Classification: Small Quantity Generator

Date form received by agency: 02/25/1997
Site name: R R DONNELLEY NORWEST INC
Classification: Small Quantity Generator

Date form received by agency: 02/22/1996
Site name: R R DONNELLEY NORWEST INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/27/1995
Site name: R R DONNELLEY NORWEST INC
Classification: Small Quantity Generator

Date form received by agency: 02/25/1994
Site name: R R DONNELLEY NORWEST INC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D011
. Waste name: SILVER

Date form received by agency: 11/01/1993
Site name: R R DONNELLEY NORWEST INC
Classification: Small Quantity Generator

Date form received by agency: 06/25/1992
Site name: R R DONNELLEY NORWEST INC
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/21/1992
Date achieved compliance: 07/09/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/09/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

NORWEST PUBLISHING (Continued) **1015735973**

Evaluation Action Summary:
Evaluation date: 05/21/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/09/1992
Evaluation lead agency: State

D23 **R R DONNELLEY NORWEST INC** **ECSI** **1000436749**
SSE **17401 NE HALSEY** **CRL** **N/A**
1/4-1/2 **PORTLAND, OR 97230** **UST**
0.446 mi. **AST**
2354 ft. **Site 2 of 2 in cluster D** **HSIS**
UIC

Relative:
Higher

Actual:
208 ft.

ECSI:
State ID Number: 962
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 0
Investigation: Listed on the CRL/Inventory
FACA ID: 3566
Further Action: 260
Lat/Long (dms): 45 32 7.00 / -122 29 1.00
County Code: 26.00
Score Value: Not reported
Cerclis ID: 044108603
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 30
Qtr Section: Not reported
Tax Lots: 186
Size: 13.6 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 02/26/2009
Created Date: 08/21/1989
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Low
Decode For Investstat: Listed on the CRL/Inventory
Decode For Legislative: Not reported
Alias Name: Norwest Publishing Co.

Hazardous Release:
Substance ID.: 121011
Haz Release ID: 383935
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/1992
Update By: Not reported
Substance Code: 127-18-4
Substance Name: TETRACHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8519
Substance Category: Volatiles

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8551
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8519
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8551
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 316912
Sub Alias Name: ETHENE,TETRACHLORO-
Substance Alias ID: 316913
Sub Alias Name: ETHYLENE TETRACHLORIDE
Substance Alias ID: 316914
Sub Alias Name: PERCHLOROETHYLENE
Substance Alias ID: 316915
Sub Alias Name: PERCLENE
Substance Alias ID: 316916
Sub Alias Name: TETRACHLOROETHENE
Substance Alias ID: 316917
Sub Alias Name: TETRACHLOROETHENE,1,1,2,2-
Substance Alias ID: 316918
Sub Alias Name: TETRACHLOROETHYLENE,1,1,2,2-
Sampling Result ID: 344245
Feature Id: Not reported
Hazard Release Id: 383935
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 12/18/1992
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 10.5 ppb (max)
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121781
Haz Release ID: 383936
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/1992
Update By: Not reported

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Substance Code: 79-01-6
Substance Name: TRICHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317517
Sub Alias Name: ETHINYL TRICHLORIDE
Substance Alias ID: 317518
Sub Alias Name: ETHYLENE TRICHLORIDE
Substance Alias ID: 317519
Sub Alias Name: TCE
Substance Alias ID: 317520
Sub Alias Name: TRI-CLENE
Substance Alias ID: 317521
Sub Alias Name: TRICHLOROETHENE
Sampling Result ID: 344244
Feature Id: Not reported
Hazard Release Id: 383936
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 12/18/1992
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 2.8 ppb (max)
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121124
Haz Release ID: 384455
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/1992

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Update By: Not reported
Substance Code: 156-59-2
Substance Name: DICHLOROETHYLENE,1,2-CIS-
Substance Abbrev.: Not reported
Substance Category ID: 8513
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8513
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317200
Sub Alias Name: ACETYLENE DICHLORIDE,CIS-
Substance Alias ID: 317201
Sub Alias Name: DICHLOROETHENE,CIS-
Substance Alias ID: 317202
Sub Alias Name: DICHLOROETHYLENE,CIS-
Substance Alias ID: 317203
Sub Alias Name: DICHLOROETHENE,1,2-CIS-
Sampling Result ID: 344846
Feature Id: Not reported
Hazard Release Id: 384455
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 12/18/1992
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 5.8 ppb (max)
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121711
Haz Release ID: 384456
Qty Released: unknown
Date Released: unknown
Update Date: 12/18/1992
Update By: Not reported
Substance Code: 75-69-4
Substance Name: TRICHLOROMONOFLUOROMETHANE
Substance Abbrev.: Not reported
Substance Category ID: 8524
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8524
Substance Category: Volatiles

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319386
Sub Alias Name: FLUOROTRICHLOROMETHANE
Substance Alias ID: 319387
Sub Alias Name: FREON 11
Substance Alias ID: 319388
Sub Alias Name: METHANE,TRICHLOROFLUORO-
Substance Alias ID: 319389
Sub Alias Name: TRICHLOROFLUOROMETHANE
Sampling Result ID: 344847
Feature Id: Not reported
Hazard Release Id: 384456
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 12/18/1992
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 1.1 ppb (max)
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5727374
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 12/26/2002
Decode for NarcdID: Contamination
NARR Comments: (9/12/1994 KPD/SRS) In October 1977, Norwest installed two 2,000-gallon USTs for storing Norwash and Stoddard solvent. Sometime in 1982, up to 200 gallons of solvent were released from a leak in corroded piping leading from the USTs. Norwest replaced the pipes. No solvent was noticeable in the surrounding soil by sight or smell, so after aeration and washing down with water, the soil around the pipes was simply replaced. No other releases were known, so after a federal PA was completed in 1989, both EPA and DEQ decided no further action was necessary at the site. However, a 1991 soil-gas survey performed by EPA for the East Multnomah County study indicated that contaminants were present at the site. Three monitoring wells were installed, and four solvents were detected in the downgradient wells that weren't present in the upgradient well. DEQ therefore voided its earlier NFA decision.

NARR ID: 5727375
NARR Code: Data Sources
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Updated Date: 12/17/2002
Decode for NarcdID: Data Sources
NARR Comments: EPA CERCLA Preliminary Assessment. Lab results.

NARR ID: 5727376
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: solvents, inks

NARR ID: 5727377
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: Actually located within city limits of Gresham, south of Interstate 84 and west of 181st.

NARR ID: 5727378
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: 5727379
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: This site is part of the East Multnomah County Groundwater Study Area (ECSI #1479). Groundwater in the area is used for primary and backup municipal water supplies by various water districts. Solvents have been detected in the groundwater, and the study is an attempt to determine the extent of the contamination, and the sources of the contamination.

NARR ID: 5727380
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: (9/12/1994 KPD/SRS) Results from the most recent sampling at the site (12/92) show four solvents in downgradient wells that are not present in the upgradient well. The origin of these solvents is unknown. Site Response recommends that the site be added to the Confirmed Release

R R DONNELLEY NORWEST INC (Continued) **1000436749**

List (CRL) and that an additional investigation be performed to determine the origin of the contamination. However, because contaminants are generally present below federal Maximum Contaminant Levels (MCLs), Site Response feels the investigation should be given a low priority, and the site should not be proposed for the Inventory.
Not reported

NARR ID: 5727381
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: Shallow groundwater beneath the site is contaminated with solvents.

Administrative Action:
Action ID: 9480
Region: Headquarters
Complete Date: 02/28/1989
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: Federal Preliminary Assessment recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9426
Region: Northwestern Region
Complete Date: 05/31/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9506
Region: Northwestern Region
Complete Date: 06/01/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Investigation recommended (SI)
Further Action: Low
Comments: Not reported

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Action ID: 9426
Region: Headquarters
Complete Date: 09/07/1994
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: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: 0
Comments: Not reported

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: 9426
Region: Headquarters
Complete Date: 02/28/1992
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: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9488
Region: Headquarters
Complete Date: 01/25/1995
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 on Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9438

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Region: Headquarters
Complete Date: 01/26/1995
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: 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: 9425
Region: Headquarters
Complete Date: 02/28/1989
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: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9497
Region: Headquarters
Complete Date: 02/28/1992
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: Preliminary Assessment Equivalent recommended (PAE)
Further Action: Not reported
Comments: Not reported

Action ID: 9448
Region: Headquarters

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Complete Date: 01/25/1995
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: Review for final listing
Further Action: Not reported
Comments: Not reported

Action ID: 9510
Region: Headquarters
Complete Date: 09/22/1992
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 Expanded Preliminary Assessment recommended (XPA)
Further Action: High
Comments: Not reported

Action ID: 9426
Region: Headquarters
Complete Date: 07/26/1991
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: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 07/27/1991
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: 9443
Region: Headquarters
Complete Date: 07/28/1991

R R DONNELLEY NORWEST INC (Continued) **1000436749**

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: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Action ID: 9520
Region: Headquarters
Complete Date: 01/13/1993
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: EXPANDED PRELIMINARY ASSESSMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9459
Region: Headquarters
Complete Date: 09/21/1992
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: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Headquarters
Complete Date: 09/07/1994
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: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9465
Region: Headquarters
Complete Date: 12/05/1994
Rank Value: 0

R R DONNELLEY NORWEST INC (Continued) **1000436749**

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: 9444
Region: Not reported
Complete Date: 06/06/1989
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: No Further Remedial Action Planned under Federal program
Further Action: Not reported
Comments: Not reported

Action ID: 9456
Region: Headquarters
Complete Date: 08/22/1989
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: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: Federal.

Operations:
Operation Id: 132261
Operation Status: Active
Common Name: Norwest Publishing Co.
Yrs of Operation: 1968 to present
Comments: printing company - phone books and software manuals
Updated Date: 09/13/1994
Updated By: CONV
Decode for OpstatID: Active
Operations SIC Id: 195843
SIC Code: 2741
Created By: Not reported
Created Date: 12/17/2002

CRL:
Facility ID: 962
Location ID: 3566
Status Code: LIS
Facility Status: Site Investigation recommended (SI)

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Lat/Long: 45.5352 / -122.4836

UST:
Facility ID: 5367
Facility Telephone: (503)255-2455
Permittee Name: BILL SWANSON, PLANT ENGINEER
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 2
Number of Tanks: 2

AST:
Facility Id: 004183
Hazardous Substance: PROPANE
Reporting Quantities: 500-999
Quantity Units: GALLONS
Physical State: GAS
Storage 1: ABOVEGROUND TANK

HSIS:
Facility Id: 004183
Chemical Is Extremely Hazardous Substance (EHS): Yes
Department Or Division Of Company: ENGINEERING
Facility Has Written Emergency Plan: Yes
Contains 112R: No
NAICS Code 1: 323110
NAICS Desc 1: COMMERCIAL LITHOGRAPHIC PRINTING
NAICS Code 2: 323121
NAICS Desc 2: TRADEBINDING & RELATED WORK
Manager Name: THOMAS QUINLAN
Business Phone: 5032552455
Mailing Address: 17401 NE HALSEY
Mailing City,St,Zip: PORTLAND, OR 97230
No. of Employees: 125
Day Phone: 5032513608
Placard: Yes
Fire Dept Code: 0144
Sprinkler System: Yes
Emergency Contact: FRANK WOMACK
Emergency Procedure: EMERGENCY RESPONSE CENTER - ROUND ROOM
Business Type: PRINTING BOOK BINDING & PLATE MAKING

Facility:
Facility Id: 004183
Physical State Of The Substance: 2
Physical State: LIQUID
Average Amount Possessed During The Year Code: 11
Maximum Amount Possessed During The Year Code: 20
Applicable Unit Of Measure Code: 2
Description Of The Unit Of Measure: GALLONS
Type Code: O
Description: TOTEBIN
Type Code: Not reported
Temperature Description: Not reported
Pressure of Code: 1
Pressure Description: NORMAL PRESSURE

R R DONNELLEY NORWEST INC (Continued) **1000436749**

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:	DIPOTASSIUM PHOSPHATE
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:	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

Chemical:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	7758114
Chemical Is Extremely Hazardous Substance (EHS):	No
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
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	004183
Physical State Of The Substance:	2
Physical State:	LIQUID
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:	O
Description:	TOTEBIN
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

R R DONNELLEY NORWEST INC (Continued) **1000436749**

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:	ETHYLENE GLYCOL
United Nations/north America 4 Digit Class Number:	1814
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:

United Nations/north America 4 Digit Class Number:	1814
Chemical Abstract Service Identifier Number:	107211
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
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 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
Contains 313:	Not reported

Facility Id:	004183
Physical State Of The Substance:	2
Physical State:	LIQUID
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:	O
Description:	TOTEBIN
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

R R DONNELLEY NORWEST INC (Continued) **1000436749**

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:	BUTYL CARBITOL
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:	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

Chemical:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	112345
Chemical Is Extremely Hazardous Substance (EHS):	No
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
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	004183
Physical State Of The Substance:	1
Physical State:	SOLID
Average Amount Possessed During The Year Code:	30
Maximum Amount Possessed During The Year Code:	30
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
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

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Description Of The Avg Qnty Code:	10,000-49,999
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:

United Nations/north America 4 Digit Class Number:	2794
Chemical Abstract Service Identifier Number:	7664939
Chemical Is Extremely Hazardous Substance (EHS):	No
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 Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	Yes
Fertilizer:	No
Pesticide:	No
Contains 313:	Yes

Facility Id:	004183
Physical State Of The Substance:	2
Physical State:	LIQUID
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:	O
Description:	TOTEBIN
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:	200-499
Most Hazardous Ingridient:	BORIC ACID
United Nations/north America 4 Digit Class Number:	Not reported

R R DONNELLEY NORWEST INC (Continued) **1000436749**

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

Chemical:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	10043353
Chemical Is Extremely Hazardous Substance (EHS):	No
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
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

OR UIC:

UIC Well #:	1
Type:	5D2
Type Description:	Storm Water Drainage
Status:	Active
UIC Number:	10390
Facility Status:	Registered & RA
Lat/Long:	45.5355 / -122.483

UIC Well #:	2
Type:	5D2
Type Description:	Storm Water Drainage
Status:	Active
UIC Number:	10390
Facility Status:	Registered & RA
Lat/Long:	45.5355 / -122.483

UIC Well #:	3
Type:	5D2
Type Description:	Storm Water Drainage
Status:	Active
UIC Number:	10390
Facility Status:	Registered & RA
Lat/Long:	45.5355 / -122.483

UIC Well #: 4

R R DONNELLEY NORWEST INC (Continued) **1000436749**

Type: 5D2
Type Description: Storm Water Drainage
Status: Active
UIC Number: 10390
Facility Status: Registered & RA
Lat/Long: 45.5355 / -122.483

UIC Well #: 5
Type: 5D2
Type Description: Storm Water Drainage
Status: Active
UIC Number: 10390
Facility Status: Registered & RA
Lat/Long: 45.5355 / -122.483

UIC Well #: 6
Type: 5D2
Type Description: Storm Water Drainage
Status: Active
UIC Number: 10390
Facility Status: Registered & RA
Lat/Long: 45.5355 / -122.483

E24 **CEDARSOURCE II** **LUST** **S105711330**
NNW **17001 NE SANDY BLVD** **N/A**
1/4-1/2 **GRESHAM, OR 97030**
0.456 mi.
2406 ft. **Site 1 of 2 in cluster E**

Relative:
Lower

Actual:
63 ft.

LUST:
Region: North Western Region
Facility ID: 26-02-1401
Cleanup Received Date: 11/20/2002
Cleanup Start Date: 11/20/2002
Cleanup Complete Date: 02/19/2003
Decode for Region: North West Region

E25 **HEATING OIL TANK** **LUST** **S104044831**
NNW **17001 NE SANDY BLVD** **N/A**
1/4-1/2 **PORTLAND, OR 97230**
0.457 mi.
2412 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
62 ft.

LUST:
Region: North Western Region
Facility ID: 26-02-0569
Cleanup Received Date: 08/06/2002
Cleanup Start Date: 08/02/2002
Cleanup Complete Date: 11/25/2002
Decode for Region: North West Region

26
NNW
1/2-1
0.511 mi.
2697 ft.

SANDY BLVD FUEL STOP
16531 NE SANDY BLVD
PORTLAND, OR 97230

ECSI **U000433494**
LUST **N/A**
UST

Relative:
Lower

Actual:
57 ft.

ECSI:

State ID Number:	992
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	8979
Further Action:	0
Lat/Long (dms):	45 32 56.40 / -122 29 31.60
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	19
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	09/01/2006
Created Date:	05/11/1988
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Alias Name: Simco Distributing Co.

Narrative:

NARR ID:	5733431
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: (10/7/86 FBromfeld/HSW) Old Texaco Station southwest of Boeing used to dump 1 drum/mo of TCE, according to a Multnomah County Health Department interviewer. Possible source of more information would be: Art Bloom of Multnomah County at 248-3400. (3/7/94 GWistar/SAS) 1986 Multnomah County Interviewer was Patrick Meyer, who now works for the Oregon Health Division. He indicated in a telephone conversation that he had never visited the Texaco facility and that the ***one drum per month*** statement actually referred to Cascade Corp., ECSI #635. Therefore, it appears that this Texaco site has been added to the database erroneously.

NARR ID:	5733432
NARR Code:	Data Sources

SANDY BLVD FUEL STOP (Continued) **U000433494**

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) State Fire Marshal Hazardous Substance Survey for Simco Distributing (1993 - 1994 survey). 2) Information from Patrick Meyer, Groundwater Section, Oregon Health Division (731-4010).

NARR ID: 5733433
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: Gasoline, diesel, motor oil and grease

NARR ID: 5733434
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: Southwest of Boeing (it is possibly west of 201st on Sandy Blvd. at approximately NE 165th - 167th).

NARR ID: 5733435
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: Potential for soil or groundwater contamination.

NARR ID: 5733436
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: (3/7/95 GMW/SAS) This site was placed on the database in error. There is no known or suspected contamination at this site, and Site Assessment therefore recommends no further action.

Administrative Action:
Action ID: 9437
Region: Northwestern Region
Complete Date: 03/07/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action

SANDY BLVD FUEL STOP (Continued) **U000433494**

Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 03/07/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
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: 9508
Region: Headquarters
Complete Date: 02/12/1994
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: Site Screening recommended (EV)
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 03/07/1994
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

SANDY BLVD FUEL STOP (Continued) **U000433494**

Action: SITE EVALUATION
Further Action: Not reported
Comments: Recommend no further state action.

Operations:
Operation Id: 132292
Operation Status: Active
Common Name: Texaco Station
Yrs of Operation: Not reported
Comments: Not reported
Updated Date: 03/13/1995
Updated By: jxh
Decode for OpstatID: Active
Operations SIC Id: 195884
SIC Code: 5541
Created By: Not reported
Created Date: 12/17/2002

LUST:
Region: North Western Region
Facility ID: 26-98-1042
Cleanup Received Date: 12/01/1998
Cleanup Start Date: 12/01/1998
Cleanup Complete Date: 12/11/2002
Decode for Region: North West Region

UST:
Facility ID: 4354
Facility Telephone: (503) 222-7773
Permittee Name: ROBERT B SUTHERLAND, OWNER
Number of Permitted Tanks: 4
Active Tanks: 4
Decommissioned Tanks: 3
Number of Tanks: 7

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27 **BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY** **ECSI** **S100500541**
East **18120 NE WILKES RD.** **LUST** **N/A**
1/2-1 **PORTLAND, OR 97230** **NPDES**
0.547 mi. **UIC**
2889 ft.

Relative:
Lower

Actual:
174 ft.

ECSI:
State ID Number: 1565
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 832
Investigation: No Further Action
FACA ID: 8973
Further Action: 0
Lat/Long (dms): 45 32 22.90 / -122 28 32.20
County Code: 26.00
Score Value: Not reported
Cerclis ID: Not reported
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Range Zone: E
Section Coord: 29
Qtr Section: Not reported
Tax Lots: Not reported
Size: Not reported
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 02/23/2006
Created Date: 05/31/1994
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Owner, operator or other party under state or federal authority
Alias Name: Firestone Tire & Rubber Co.

Hazardous Release:
Substance ID.: 121781
Haz Release ID: 384360
Qty Released: unknown
Date Released: unknown
Update Date: 05/21/1991
Update By: Not reported
Substance Code: 79-01-6
Substance Name: TRICHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317517
Sub Alias Name: ETHINYL TRICHLORIDE
Substance Alias ID: 317518
Sub Alias Name: ETHYLENE TRICHLORIDE
Substance Alias ID: 317519
Sub Alias Name: TCE
Substance Alias ID: 317520
Sub Alias Name: TRI-CLENE
Substance Alias ID: 317521
Sub Alias Name: TRICHLOROETHENE
Sampling Result ID: 344725

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Feature Id: Not reported
Hazard Release Id: 384360
Medium: 698
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: up to 167 ppb
Last Update By: jmw
Update Date: 10/03/2000
Decode for MediumID: Groundwater

Substance ID.: 121701
Haz Release ID: 384361
Qty Released: unknown
Date Released: unknown
Update Date: 11/21/1991
Update By: Not reported
Substance Code: 75-35-4
Substance Name: DICHLOROETHYLENE,1,1-
Substance Abbrev.: Not reported
Substance Category ID: 8512
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8553
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8512
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8553
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319364
Sub Alias Name: DICHLOROETHENE,1,1-
Substance Alias ID: 319365
Sub Alias Name: DICHLOROETHYLENE,asym-
Substance Alias ID: 319366
Sub Alias Name: ETHENE,1,1-DICHLORO-
Substance Alias ID: 319367
Sub Alias Name: VINYLIDENE CHLORIDE
Sampling Result ID: 344726
Feature Id: Not reported

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Hazard Release Id: 384361
Medium: 698
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: up to 80.6 ppb
Last Update By: jmw
Update Date: 10/03/2000
Decode for MediumID: Groundwater

Substance ID.: 121610
Haz Release ID: 384362
Qty Released: unknown
Date Released: unknown
Update Date: 11/21/1991
Update By: Not reported
Substance Code: 71-55-6
Substance Name: TRICHLOROETHANE,1,1,1-
Substance Abbrev.: Not reported
Substance Category ID: 8521
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8552
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8521
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8552
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318151
Sub Alias Name: TCA,1,1,1-
Substance Alias ID: 319183
Sub Alias Name: BALTANA
Substance Alias ID: 319184
Sub Alias Name: CHLOROTHENE
Substance Alias ID: 319185
Sub Alias Name: METHYLCHLOROFORM
Sampling Result ID: 344727
Feature Id: Not reported
Hazard Release Id: 384362

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Medium: 698
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: up to 5.4 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5734184
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: (6/9/94 KPD/SRS) There are two buildings on-site, apparently used for a truck service center and auto parts distribution warehouse. Prior to 1988, one of the buildings was used to retread tires (Pro-Tread Facility). Firestone hired a contractor to evaluate the facility in 1989. The resulting site assessment report noted a pile of ***rubber dust*** on the ground, and petroleum and solvents in a shallow, perched aquifer. The petroleum, centered around an underground storage tank (UST), was removed with the UST itself in 1990. 40 cubic yards of rubber dust were also removed. Six monitoring wells were drilled to track the solvent contamination. Firestone's contractors believed the solvents had migrated onto the property from off-site and were confined to the shallow aquifer. A later DEQ investigation suggested that the shallow aquifer may discharge to deeper aquifers (the Troutdale Aquifers), which are used for municipal water supplies. A dry well was constructed on-site in 1964 (no longer in use); its location was identified in a February 8, 2001 report.

NARR ID: 5734185
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) 8/89 Dames & Moore Site Assessment. 2) 12/90 Ryan-Murphy UST Closure report. 3) 3/91 Groundwater Monitoring Well Installation report. 4) Correspondence FROM owner/operator. 5) Laboratory reports. 6) Project Manager files.

NARR ID: 5734186
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: solvents, petroleum

NARR ID: 5734187
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 are unknown.

NARR ID: 5734188
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 site is located in the East Multnomah County Groundwater Study Area (ECSI #1479). Gravel and sandstone aquifers in the area (the Troutdale Aquifers) are used for primary and backup municipal water supplies. Solvents were detected in the Troutdale Aquifers in some locations in the 1980s, and the area-wide study was begun to determine the extent and sources of the contaminants. Firestone was first identified as a potential source in 1988.

NARR ID: 5734189
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: (6/9/94 KPD/SRS) No sampling has apparently taken place on-site since November 1991. The past history of hazardous substance use and disposal at the site is unknown. A Preliminary Assessment (PA) needs to be performed to determine the origin of the solvent contamination. Because there is some evidence that the contaminated perched aquifer may discharge to the Troutdale Aquifers, the PA should be given a medium priority. (10/2/00 BAG/SRP) Bridgestone Firestone conducted additional independent site investigation work in September 1998 and February 1999. The investigation found 1,1,1-TCA, 1,1-DCE, and TCE in groundwater but not soil. In December 1999, B/F entered an Independent Cleanup Agreement with DEQ. Additional soil and groundwater monitoring done in June and August 2000. (2/1/01 BAG/SRP) A site investigation report will be issued in February 2001.

Administrative Action:
Action ID: 9443
Region: Northwestern Region
Complete Date: 06/06/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Action ID: 9435
Region: Not reported
Complete Date: 10/09/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: Not reported
Comments: Requested SSTC/ICP.

Action ID: 9511
Region: Northwestern Region
Complete Date: 10/09/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE INVESTIGATION
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Headquarters
Complete Date: 05/31/1994
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: 9425
Region: Headquarters
Complete Date: 06/09/1994
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

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 06/08/1994
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: 9498
Region: Headquarters
Complete Date: 06/09/1994
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: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9496
Region: Headquarters
Complete Date: 06/10/1994
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: Medium
Comments: Not reported

Action ID: 9465
Region: Headquarters
Complete Date: 08/26/1994
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

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9428
Region: Not reported
Complete Date: 10/17/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Not reported
Decode for RegionID: Not reported
Category: Listing Action
Action Code Flag: False
Action: Extension requested by owner/operator
Further Action: Not reported
Comments: Not reported

Action ID: 9430
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: Listing Action
Action Code Flag: False
Action: Petition or request granted
Further Action: Not reported
Comments: per phone conversation - confirmation letter sent out 10/17/94

Action ID: 9451
Region: Not reported
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Not reported
Decode for RegionID: Not reported
Category: Listing Action
Action Code Flag: False
Action: Owner/operator comments received on listing notification
Further Action: Not reported
Comments: Letter and report from Jones, Day, Reavis & Pogue.

Operations:
Operation Id: 132894
Operation Status: Active
Common Name: Bridgestone/Firestone Pro-Tread Facility
Yrs of Operation: unknown
Comments: truck service center; auto parts distribution
Updated Date: 03/13/1995
Updated By: jxh
Decode for OpstatID: Active
Operations SIC Id: 196036
SIC Code: 7534
Created By: Not reported

BRIDGESTONE/FIRESTONE PRO-TREAD FACILITY (Continued) **S100500541**

Created Date: 12/17/2002
Operations SIC Id: 196037
SIC Code: 5014
Created By: Not reported
Created Date: 12/17/2002

LUST:
Region: North Western Region
Facility ID: 26-89-0061
Cleanup Received Date: 04/12/1989
Cleanup Start Date: 09/26/1990
Cleanup Complete Date: 11/07/1990
Decode for Region: North West Region

NPDES:
WQ File Nbr: 123244
Legal Name: WREH GRESHAM, LLC
Region: Not reported
Pri SIC: 1542
Facility Type: Not reported
Latitude: Not reported
Longitude: Not reported
Category: Not reported
Permit Type: GEN12C
Permit Active: Not reported
Is Active?: FALSE
Permit Description: Not reported
Expiration Date: Not reported
EPA Number: Not reported
UIC Facility: Not reported
Admin Agent: Not reported
Last Action Date: Not reported
Permit Writer: Not reported
Compliance Inspector: Not reported
DMR Reviewer: Not reported
Application Number: Not reported
Class: Not reported
Start Date: Not reported
Region Decode: Not reported

OR UIC:
UIC Well #: 1
Type: 5D2
Type Description: Storm Water Drainage
Status: Abandoned w/o Authority
UIC Number: 14216
Facility Status: Abandoned
Lat/Long: 45.53334 / -122.4756

28
ESE
1/2-1
0.649 mi.
3427 ft.

MULTIFOODS DISTRIBUTION GROUP
18332 NE SAN RAFAEL ST.
PORTLAND, OR 97230

ECSI **S111248003**
N/A

Relative:
Higher

Actual:
184 ft.

ECSI:

State ID Number:	2621
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	5393
Further Action:	0
Lat/Long (dms):	45 32 13.00 / -122 28 29.00
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	29
Qtr Section:	C
Tax Lots:	1700
Size:	3.73 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	05/24/2012
Created Date:	07/11/2000
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect
Decode For Legislative:	Not reported
Alias Name:	E. R. Carpenter Co.
Alias Name:	Mazza Cheese Sales of Oregon

Hazardous Release:

Substance ID.:	121701
Haz Release ID:	378954
Qty Released:	Not reported
Date Released:	Not reported
Update Date:	11/07/2000
Update By:	Not reported
Substance Code:	75-35-4
Substance Name:	DICHLOROETHYLENE,1,1-
Substance Abbrev.:	Not reported
Substance Category ID:	8512
Substance Category:	Volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8553
Substance Category:	Solvents of interest to Milwaukie Area GW study
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002

MULTIFOODS DISTRIBUTION GROUP (Continued) **S111248003**

Substance Category ID: 8512
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8553
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319364
Sub Alias Name: DICHLOROETHENE,1,1-
Substance Alias ID: 319365
Sub Alias Name: DICHLOROETHYLENE,asym-
Substance Alias ID: 319366
Sub Alias Name: ETHENE,1,1-DICHLORO-
Substance Alias ID: 319367
Sub Alias Name: VINYLIDENE CHLORIDE
Sampling Result ID: 339571
Feature Id: Not reported
Hazard Release Id: 378954
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False
Lab Data: True
Sample Depth: Not reported
Start Date: 05/05/1999
End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 50.7 ug/L
Last Update By: jmw
Update Date: 07/11/2000
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5739770
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: (7/11/00 BAG/SRP) VOCs detected in shallow groundwater may be associated with releases from the adjacent Swift Adhesives facility. DEQ, however, cannot rule out the possibility of on-site releases from previous manufacturing operations.

NARR ID: 5739771
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: Limited Soil and Groundwater Investigation Report, ADaPT, June 1999.

MULTIFOODS DISTRIBUTION GROUP (Continued) **S111248003**

NARR ID: 5739772
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: chlorinated solvents

NARR ID: 5739773
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: (7/11/00 BAG/SRP) Based on a review of soil/groundwater investigation report, DEQ doesn't plan to require further investigation by Swift Adhesives/Reichhold Chemical to determine whether they are the source of the VOC contamination at Multifoods. The Swift Adhesives remedy (groundwater pump-and-treat) captures groundwater from the Multifoods site. DEQ recommends that Multifoods conduct further investigation to determine the source of contamination on its site.

NARR ID: 5739774
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: VOCs were detected in shallow groundwater at the Multifoods site. The primary concern w/VOCs in groundwater is vapor intrusion into buildings. The calculated risk level for 1,1-DCE is 40 ug/L, which is below the maximum concentration reported.

Administrative Action:
Action ID: 9510
Region: Northwestern Region
Complete Date: 07/11/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: State Expanded Preliminary Assessment recommended (XPA)
Further Action: Not reported
Comments: Not reported

Action ID: 9424
Region: Northwestern Region
Complete Date: 07/11/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

MULTIFOODS DISTRIBUTION GROUP (Continued) **S111248003**

Decode for RegionID: Northwest Region
Category: Administrative Action
Action Code Flag: False
Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Northwestern Region
Complete Date: 07/11/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Operations:

Operation Id: 133841
Operation Status: Inactive
Common Name: E.R. Carpenter Company
Yrs of Operation: Approximately 1972 - 1982
Comments: Not reported
Updated Date: 07/11/2000
Updated By: jmw
Decode for OpstatID: Inactive
Operations SIC Id: 197138
SIC Code: 3000
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 133842
Operation Status: Active
Common Name: Multifoods Distribution Group
Yrs of Operation: Approximately 1982 - Present
Comments: Not reported
Updated Date: 07/11/2000
Updated By: jmw
Decode for OpstatID: Active
Operations SIC Id: 197137
SIC Code: 4700
Created By: Not reported
Created Date: 12/17/2002

F29 **SWIFT ADHESIVES** **ECSI S101951077**
ESE **18408 NE SAN RAFAEL ST.** **CRL N/A**
1/2-1 **PORTLAND, OR 97230** **INST CONTROL**
0.698 mi. **OR HAZMAT**
3686 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
184 ft.

ECSI:
State ID Number: 884
Brown ID: 0
Study Area: False

SWIFT ADHESIVES (Continued) **S101951077**

Region ID: 2
Legislatve ID: 831
Investigation: Listed on the CRL/Inventory
FACA ID: 3702
Further Action: 0
Lat/Long (dms): 45 32 13.00 / -122 28 25.68
County Code: 26.00
Score Value: Not reported
Cerclis ID: 990751828
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 29
Qtr Section: Not reported
Tax Lots: Not reported
Size: 3.9 acres
NPL: False
Orphan: False
Updated By: GWISTAR
Update Date: 03/12/2013
Created Date: 01/01/1989
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
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: Reichhold Chemical

Hazardous Release:
Substance ID.: 121552
Haz Release ID: 385433
Qty Released: unknown
Date Released: unknown
Update Date: 01/01/1989
Update By: Not reported
Substance Code: 630-20-6
Substance Name: TETRACHLOROETHANE,1,1,1,2-
Substance Abbrev.: Not reported
Substance Alias ID: 319031
Sub Alias Name: ETHANE,1,1,1,2-TETRACHLORO-
Sampling Result ID: 346757
Feature Id: Not reported
Hazard Release Id: 385433
Medium: 698
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: 6 ppb
Last Update By: CONV

SWIFT ADHESIVES (Continued) **S101951077**

Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121700
Haz Release ID: 385434
Qty Released: unknown
Date Released: unknown
Update Date: 01/01/1989
Update By: Not reported
Substance Code: 75-34-3
Substance Name: DICHLOROETHANE,1,1-
Substance Abbrev.: Not reported
Substance Category ID: 8548
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8548
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319361
Sub Alias Name: ETHANE,1,1-DICHLORO-
Substance Alias ID: 319362
Sub Alias Name: ETHYLIDENE CHLORIDE
Substance Alias ID: 319363
Sub Alias Name: ETHYLIDENE DICHLORIDE
Sampling Result ID: 346867
Feature Id: Not reported
Hazard Release Id: 385434
Medium: 698
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: 14 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121124
Haz Release ID: 385435
Qty Released: unknown
Date Released: unknown
Update Date: 01/01/1989
Update By: Not reported
Substance Code: 156-59-2
Substance Name: DICHLOROETHYLENE,1,2-CIS-
Substance Abbrev.: Not reported
Substance Category ID: 8513

SWIFT ADHESIVES (Continued) **S101951077**

Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8513
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317200
Sub Alias Name: ACETYLENE DICHLORIDE,CIS-
Substance Alias ID: 317201
Sub Alias Name: DICHLOROETHENE,CIS-
Substance Alias ID: 317202
Sub Alias Name: DICHLOROETHYLENE,CIS-
Substance Alias ID: 317203
Sub Alias Name: DICHLOROETHENE,1,2-CIS-
Sampling Result ID: 345058
Feature Id: Not reported
Hazard Release Id: 385435
Medium: 698
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: 63 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121694
Haz Release ID: 385436
Qty Released: unknown
Date Released: unknown
Update Date: 01/01/1989
Update By: Not reported
Substance Code: 75-09-2
Substance Name: METHYLENE CHLORIDE
Substance Abbrev.: Not reported
Substance Category ID: 8518
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8518
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319341
Sub Alias Name: DICHLOROMETHANE

SWIFT ADHESIVES (Continued) **S101951077**

Substance Alias ID: 319342
Sub Alias Name: METHANE DICHLORIDE
Substance Alias ID: 319343
Sub Alias Name: METHYLENE BICHLORIDE
Substance Alias ID: 319344
Sub Alias Name: METHYLENE DICHLORIDE
Sampling Result ID: 346630
Feature Id: Not reported
Hazard Release Id: 385436
Medium: 698
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: 11 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121695
Haz Release ID: 385437
Qty Released: unknown
Date Released: unknown
Update Date: 01/01/1989
Update By: Not reported
Substance Code: 75-15-0
Substance Name: CARBON DISULFIDE
Substance Abbrev.: Not reported
Substance Category ID: 8506
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8506
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319345
Sub Alias Name: CARBON BISULFIDE
Substance Alias ID: 319346
Sub Alias Name: CARBON BISULPHIDE
Substance Alias ID: 319347
Sub Alias Name: CARBON DISULPHIDE
Substance Alias ID: 319348
Sub Alias Name: CARBON SULFIDE
Substance Alias ID: 319349
Sub Alias Name: DITHIOCARBONIC, ANHYDRIDE
Sampling Result ID: 346631
Feature Id: Not reported
Hazard Release Id: 385437

SWIFT ADHESIVES (Continued) **S101951077**

Medium: 698
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: 53 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121610
Haz Release ID: 385470
Qty Released: unknown
Date Released: unknown
Update Date: 01/01/1989
Update By: Not reported
Substance Code: 71-55-6
Substance Name: TRICHLOROETHANE,1,1,1-
Substance Abbrev.: Not reported
Substance Category ID: 8521
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8552
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8521
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8552
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 318151
Sub Alias Name: TCA,1,1,1-
Substance Alias ID: 319183
Sub Alias Name: BALTANA
Substance Alias ID: 319184
Sub Alias Name: CHLOROTHENE
Substance Alias ID: 319185
Sub Alias Name: METHYLCHLOROFORM
Sampling Result ID: 346628
Feature Id: Not reported
Hazard Release Id: 385470
Medium: 698

SWIFT ADHESIVES (Continued) **S101951077**

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: 92 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121701
Haz Release ID: 385471
Qty Released: unknown
Date Released: unknown
Update Date: 01/01/1989
Update By: Not reported
Substance Code: 75-35-4
Substance Name: DICHLOROETHYLENE,1,1-
Substance Abbrev.: Not reported
Substance Category ID: 8512
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8553
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8512
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8553
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319364
Sub Alias Name: DICHLOROETHENE,1,1-
Substance Alias ID: 319365
Sub Alias Name: DICHLOROETHYLENE,asym-
Substance Alias ID: 319366
Sub Alias Name: ETHENE,1,1-DICHLORO-
Substance Alias ID: 319367
Sub Alias Name: VINYLIDENE CHLORIDE
Sampling Result ID: 337494
Feature Id: Not reported
Hazard Release Id: 385471
Medium: 698
Substance Abbrev.: Not reported

SWIFT ADHESIVES (Continued) **S101951077**

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: 310 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Substance ID.: 121781
Haz Release ID: 385625
Qty Released: unknown
Date Released: unknown
Update Date: 01/01/1989
Update By: Not reported
Substance Code: 79-01-6
Substance Name: TRICHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 317517
Sub Alias Name: ETHINYL TRICHLORIDE
Substance Alias ID: 317518
Sub Alias Name: ETHYLENE TRICHLORIDE
Substance Alias ID: 317519
Sub Alias Name: TCE
Substance Alias ID: 317520
Sub Alias Name: TRI-CLENE
Substance Alias ID: 317521
Sub Alias Name: TRICHLOROETHENE
Sampling Result ID: 346629
Feature Id: Not reported
Hazard Release Id: 385625
Medium: 698

SWIFT ADHESIVES (Continued) **S101951077**

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: 20 ppb
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater

Narrative:

NARR ID: 5725939
NARR Code: Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: JWAGGY
Updated Date: 02/04/2003
Decode for NarcdID: Contamination
NARR Comments: (2/9/98 BAG/SRS) DEQ inspector Don Peters noted the presence of a white viscous liquid on the ground at the site. The liquid was identified as waste adhesive. Subsequently, TCE and other contaminants were found in the groundwater within 1 mile of the Swift property. The source of the TCE has not been determined. A number of facilities in the area used TCE in their manufacturing processes in the past. Swift Adhesives has not produced records that explain and document their waste-disposal practices from 1969 to 1981. In 1990, approximately 950 tons of solid waste adhesive and soil were removed from three areas at the site (to a depth of 1.5 feet). The perched aquifer beneath the site is still contaminated. (11/21/02 BAG/SRP) The groundwater pump and treat system has been operating for nearly seven years. A five-year remedy performance evaluation was completed in 2001. Swift recommended discontinuing active pump and treat because current conditions are protective of human health and the environment. DEQ requested additional documentation to support their conclusions that existing conditions are protective. (1/30/03 BAG/SRP) Reichhold is currently in the process of completing remediation system decommissioning, which includes removal of the treatment system from the property and abandonment of the groundwater monitoring and extraction wells.

NARR ID: 5726634
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: SRS project manager files including 12/90 Removal Report, 5/93 RI Report, and 7/93 FS Report

NARR ID: 5726756
NARR Code: Hazardous Substance/Waste Types
Created By: Not reported

SWIFT ADHESIVES (Continued) **S101951077**

Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Waste adhesive products containing the following hazardous substances: 1,1,1-trichlororethane; trichloroethylene; methylene chloride; acetone; methyl ethyl ketone; ethyl acetate; formaldehyde; phenol; hexane; formalin; sodium hydroxide; ammonium thiocyanate; antimony oxide; xylenes; chromic nitrate; ammonium hydroxide; and methyl isobutyl ketone.

NARR ID: 5726757
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: Land disposal of waste adhesive products; time of release unknown.

NARR ID: 5726758
NARR Code: Media Contamination
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Media Contamination
NARR Comments: Contaminants were disposed of in three areas on the site. Additional sample results are available in the RI Report.

NARR ID: 5726759
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 06/12/2003
Decode for NarcdID: Remedial Action
NARR Comments: (2/9/98 BAG/SRS) Swift and DEQ entered into a Consent Order for site investigation/removal action in 1989. RI/FS reports approved; groundwater cleanup option selected in May 1994. DEQ approved a remedial action plan prepared by Swift describing implementation of DEQ's selected remedy. An addendum to the Consent Order was issued in March 1995. The addendum adds the remedial action plan to the scope of work to be completed by Swift under the original consent order issued in 1989. An additional consent order addendum was issued in September 1995 stipulating NPDES discharge requirements for disposal of treated groundwater to on-site storm drain. Remedial action began in October 1995. Remedial Action Construction Completion Report received in March 1996. Remedy is operational and functional. Inspection of pump-and-treat system conducted in December 1996. Remedy continues to perform as designed. An annual performance report was received in March 1997. Two million gallons of contaminated groundwater were extracted and treated in 1996. The extent of the contaminant plume has shrunken considerably. Groundwater pumping and treatment is continuing. (11/21/02 BAG/SRP) Swift recommended discontinuing active pump and treat because current conditions are protective of human health and the environment. DEQ requested

SWIFT ADHESIVES (Continued) **S101951077**

additional documentation to support their conclusions that existing conditions are protective. A residual risk assessment has been completed and DEQ will proceed with issuance of a public notice of a proposed No Further Action (NFA) for the site. In the absence of public comment opposing the recommendation, DEQ will issue the NFA action in January 2003. (1/30/03 BAG/SRP) Based on the information presented to date, DEQ has concluded that the former Swift Adhesives plant site is currently protective of public health and the environment as long as the institutional controls are maintained. A certificate of completion was issued on January 30, 2003. The facility will remain on the Inventory as long as the unacceptable risk at the site is managed by institutional controls.

Site Control:
Site Control #: 147
Control Number: 4
Begin Date: 05/01/1995
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Bruce Gilles
Last Reviewed Date: 01/30/2003
Last Update By: JPALMER
Last Updated Date: 06/10/2005
Site Comment: Prohibition on the use of groundwater at the site. Review completed under ECSI #1479

Administrative Action:
Action ID: 9434
Region: Northwestern 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: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: Not reported
Comments: ICON prohibits future groundwater use at the facility.

Action ID: 9442
Region: Headquarters
Complete Date: 10/03/1989
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: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9412
Region: Headquarters
Complete Date: 10/03/1989

SWIFT ADHESIVES (Continued) **S101951077**

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: Consent Order
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Headquarters
Complete Date: 07/31/1990
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: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Headquarters
Complete Date: 07/31/1990
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: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9488
Region: Headquarters
Complete Date: 02/26/1991
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 on Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9489
Region: Headquarters
Complete Date: 02/26/1991
Rank Value: 0

SWIFT ADHESIVES (Continued) **S101951077**

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 on Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9480
Region: Headquarters
Complete Date: 03/27/1989
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: Federal Preliminary Assessment recommended
Further Action: High
Comments: Not reported

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: 9425
Region: Headquarters
Complete Date: 03/27/1989
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: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9469
Region: Northwestern Region
Complete Date: 01/30/2003
Rank Value: 0
Cleanup Flag: False

SWIFT ADHESIVES (Continued) **S101951077**

Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: RA Certificate of Completion issued.

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: 9494
Region: Headquarters
Complete Date: 05/30/1994
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: RECORD OF DECISION
Further Action: Not reported
Comments: Not reported

Action ID: 9473
Region: Headquarters
Complete Date: 04/02/1995
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: REMEDIAL DESIGN
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Headquarters
Complete Date: 03/11/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

SWIFT ADHESIVES (Continued) **S101951077**

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: 9429
Region: Headquarters
Complete Date: 05/20/1994
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: FEASIBILITY STUDY
Further Action: Not reported
Comments: Phase completed upon issuance of ROD.

Action ID: 9512
Region: Not reported
Complete Date: 09/30/1991
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: 9456
Region: Headquarters
Complete Date: 04/28/1989
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: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: Federal.

Action ID: 9491
Region: Headquarters
Complete Date: 05/01/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

SWIFT ADHESIVES (Continued) **S101951077**

Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: REMOVAL
Further Action: Not reported
Comments: Not reported

Action ID: 9484
Region: Headquarters
Complete Date: 09/30/1992
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: REMEDIAL INVESTIGATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 07/30/1990
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: 9467
Region: Headquarters
Complete Date: 09/04/1990
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: 9465
Region: Headquarters
Complete Date: 09/04/1990
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters

SWIFT ADHESIVES (Continued) **S101951077**

Category: Listing Action
Action Code Flag: False
Action: Facility proposed for Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9448
Region: Headquarters
Complete Date: 02/25/1991
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: Review for final listing
Further Action: Not reported
Comments: Not reported

Action ID: 9439
Region: Headquarters
Complete Date: 03/11/1991
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 Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9451
Region: Headquarters
Complete Date: 11/27/1990
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: Owner/operator comments received on listing notification
Further Action: Not reported
Comments: Not reported

Action ID: 9411
Region: Northwestern Region
Complete Date: 01/30/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/03/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action

SWIFT ADHESIVES (Continued) **S101951077**

Action Code Flag: False
Action: No Further Action (Conditional)
Further Action: 0
Comments: Not reported

Action ID: 9414
Region: Northwestern Region
Complete Date: 01/30/2003
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/27/2003
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Certification of Completion
Further Action: 0
Comments: Satisfactory completion of the remedial action for contaminated groundwater.

Operations:
Operation Id: 132185
Operation Status: Inactive
Common Name: Swift Adhesives
Yrs of Operation: 1969 to 1992
Comments: Manufacturer of solvent and aqueous-based adhesives.
Updated Date: 04/25/1996
Updated By: kpd
Decode for OpstatID: Inactive
Operations SIC Id: 195763
SIC Code: 2842
Created By: Not reported
Created Date: 12/17/2002
Operations SIC Id: 195764
SIC Code: 2891
Created By: Not reported
Created Date: 12/17/2002

CRL:
Facility ID: 884
Location ID: 3702
Status Code: LIS
Facility Status: No Further Action (Conditional)
Lat/Long: 45.537 / -122.474

OR INSTUTIONAL CONTROL:
Site Control Sequence #: 147
Site Id: 884
Control Sequence #: 4
Begin Date: 05/01/1995
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Bruce Gilles
Last Review Date: 01/30/2003
Last Updated By: JPALMER
Last Updated Date: 06/10/2005
Group Sequence #: 2

SWIFT ADHESIVES (Continued) **S101951077**

Control Code:	USG
Control Description:	Use Restriction Groundwater
FK Type Code:	1
Group Code:	PR
Group Description:	Proprietary
Type Code:	I
Type Description:	Institutional
Comments:	Prohibition on the use of groundwater at the site. Review completed under ECSI #1479

HAZMAT:

Responsble Party:	Not reported
RP Company:	SWIFT ADHESIVES
RP Address:	18408 NE SAN RAFAEL
RP City,St,Zip:	GRESHAM, OR 97230
Facility ID:	920273
OERS Number:	Not reported
Dept Rsp:	PORTLAND BUREAU OF F&R&EMS
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	PORTLAND BUREAU OF F&R&EMS
Date Added:	01/01/1985
Unit:	Not reported
Agency Phone:	0008233850

SWIFT ADHESIVES (Continued) **S101951077**

Osfm Incident Report Number:	920273
Dept. Responding:	PORTLAND BUREAU OF F&R&EMS
Person Making Report:	PERRY SIGLE
Title:	LT
Agency:	PORTLAND BUREAU OF F&R&EMS
Phone:	0008233850
Date Of Incident:	08/10/1992
Call Time:	5:59:00 PM
In Route:	12:00:00 AM
Arrival:	12:00:00 AM
Depart Scene:	12:00:00 AM
Back In Quarters:	12:00:00 AM
In Service:	6:46:00 PM
Dist Of Incident:	PORTLAND BUREAU OF F&R&EMS
Were State Resources Used?:	False
Was Oers Notified?:	False
Oers Number:	Not reported
Team Number:	Not reported
Agency Report Number:	92-27668
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Private Structure
Area Type:	Industrial
Responsible Party(Ies):	Not reported
Company:	SWIFT ADHESIVES
Respcontact:	Not reported
Address:	18408 NE SAN RAFAEL
Resp City:	GRESHAM
Resp State:	OR
Resp ZipCode:	97230
Phone:	Not reported
Resp Phone2:	Not reported
Weather:	0
Temperature:	0
Wind Speed:	0
Wind Direction:	Not reported
Were Haz Materials Released?:	False
Operation Performed:	Normal Operation
Cause:	Unknown
Vehicle And Cargo:	0
Fixed Property:	0
Total Loss:	$0.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

HAZMAT:

Casualties Id:	867
Incident Id:	920273

SWIFT ADHESIVES (Continued) **S101951077**

Casualties Type: 1
Injury Exp: 0
Injury Other: 0
Death Exp: 0
Death Other: 0
Hopitalized: 1

Chemical:
Chemical Info: 6334
Chemical Id: 35430
Incident Id: 920273
Chemical Name: UNKNOWN CHEMICAL
UNNA: Not reported
Amount At Risk: 0
Amount Released: 0
Amount Measured: 0
Biological: False
Radiological: False

Chemical Id: 35430
Chemical Name: UNKNOWN CHEMICAL
Hazardous Ingredient: UNKNOWN CHEMICAL
Hazardous Class 1: 9.0
Hazardous Class 2: Not reported
Hazardous Rank: 2
Case Number: Not reported
UNNA Number: Not reported
EPA Pest Reg: Not reported
EHA Chem: Not reported
PSM Chem: Not reported
CAA 112R Chem: Not reported

Method:
Method Used Id: 4953
Incident Id: 920273
Identity Method: 5

Narrative:
Narrative Id: 3905
Incident Id: 920273
Incident Narrative: PORTLAND HAZMAT TEAM RESPONDED AT THE REQUEST OF GRESHAM FD
Incident Date: 8/10/1992

F30 **EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION** **CERCLIS** **1000705894**
ESE **18408 SAN RAFAEL STREET** **US ENG CONTROLS** **ORD987185030**
1/2-1 **MULTNOMAH COUNTY, OR 97230** **US INST CONTROL**
0.698 mi. **RCRA NonGen / NLR**
3686 ft. **Site 2 of 2 in cluster F** **ROD**
PRP

Relative:
Higher

Actual:
184 ft.

CERCLIS:
Site ID: 1001581
EPA ID: ORD987185030
Facility County: MULTNOMAH
Short Name: E. MULTNOMAH COUNTY GW

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Congressional District:	03,02
IFMS ID:	10N1
SMSA Number:	6440
USGC Hydro Unit:	17090012
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	10
Classification:	Not reported
Site Settings Code:	CL
NPL Status:	Removed from Proposed NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Other Cleanup Activity: State-Lead Cleanup
Non NPL Status Date:	03/16/11
Site Fips Code:	41051
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Alias Name(s):

Alias ID:	101
Alias Name:	EAST MULTNOMAH COUNTY GROUND WTR CONTAM.
Alias Address:	Not reported
	Not reported
Alias ID:	805
Alias Name:	EAST MULTNOMAH COUNTY GROUND WTR CONTAM.
Alias Address:	Not reported
	Not reported
Alias ID:	806
Alias Name:	EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION
Alias Address:	Not reported
	Not reported
Alias ID:	10270080
Alias Name:	East Multnomah County Ground Water Contamination
Alias Address:	Not reported
	Not reported
Alias ID:	10270081
Alias Name:	EAST MULTNOMAH COUNTY GROUND WTR CONTAM.
Alias Address:	18408 NE SAN RAFAEL
	GRESHAM, OR 97230
Alias ID:	10270082
Alias Name:	EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION
Alias Address:	18408 SAN RAFAEL STREET
	MULTNOMAH COUNTY, OR 97230
Alias Comments:	Not reported

Site Description: Not reported

CERCLIS Assessment History:

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: 02/08/89
Date Completed: 02/08/89
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: STATE ORDER
Date Started: / /
Date Completed: 09/06/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 04/04/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 05/20/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: SITE INSPECTION
Date Started: 09/30/91

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Date Completed: 09/30/91
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: / /
Date Completed: 01/11/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 05/10/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 11/29/93
Date Completed: 11/29/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: STATE ORDER
Date Started: / /
Date Completed: 07/18/94
Priority Level: Not reported
Operable Unit: SITEWIDE

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Primary Responsibility: State Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 11/12/91
Date Completed: 08/31/94
Priority Level: Search Complete, Viable PRPs
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 05/16/96
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 09/06/89
Date Completed: 12/31/96
Priority Level: Not reported
Operable Unit: CASCADE CORP.
Primary Responsibility: PRP Lead Under State
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 07/18/94
Date Completed: 12/31/96
Priority Level: Not reported
Operable Unit: TSA GROUNDWATER
Primary Responsibility: PRP Lead Under State
Planning Status: Not reported
Urgency Indicator: Not reported

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 12/31/96
Priority Level: Not reported
Operable Unit: TSA GROUNDWATER
Primary Responsibility: State, without EPA Concurrence
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 12/31/96
Priority Level: Final Remedy Selected at Site
Operable Unit: CASCADE CORP.
Primary Responsibility: State, without EPA Concurrence
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: STATE ORDER
Date Started: / /
Date Completed: 02/14/97
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 12/31/96
Date Completed: 08/28/98
Priority Level: Not reported
Operable Unit: TSA GROUNDWATER
Primary Responsibility: PRP Lead Under State
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 12/31/96
Date Completed: 08/28/98
Priority Level: Not reported
Operable Unit: CASCADE CORP.
Primary Responsibility: PRP Lead Under State
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: TECHNICAL ASSISTANCE GRANT
Date Started: 09/29/95
Date Completed: 05/08/00
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 06/26/00
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVED FROM THE PROPOSED NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 09/23/04
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details:
Fed Register Date: 05/10/93
Fed Register Volume: 58
Page Number: 27507

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Fed Register Date: 09/23/04
Fed Register Volume: 69
Page Number: 56970

Click this hyperlink while viewing on your computer to access
2 additional US CERCLIS Financial: record(s) in the EDR Site Report.

US ENG CONTROLS:

EPA ID: ORD987185030
Site ID: 1001581
Name: EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION
Address: 18408 SAN RAFAEL STREET
MULTNOMAH COUNTY, OR 97230
EPA Region: 10
County: MULTNOMAH
Event Code: Not reported
Actual Date: 12/30/1996
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Alternate Drinking Water, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Alternate Drinking Water, Permanent Replacement
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Hydraulic Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Pump And Treat
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Reinjection
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Air
Engineering Control: Oxidation
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Air Sparging
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Free Product Recovery
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Hydraulic Control
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Recovery Wells
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Vapor Extraction
Contact Name: Not reported

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Cap
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Impermeable Barrier
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Operations & Maintenance (O&M)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 12/31/1996
Operable Unit: 02
Contaminated Media : Soil
Engineering Control: Soil Vapor Extraction (in-situ)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

Longitude: Not reported

US INST CONTROL:
EPA ID: ORD987185030
Site ID: 1001581
Name: EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION
Action Name: RECORD OF DECISION
Address: 18408 SAN RAFAEL STREET
MULTNOMAH COUNTY, OR 97230
EPA Region: 10
County: MULTNOMAH
Event Code: Not reported
Inst. Control: Institutional Controls, (N.O.S.)
Actual Date: 12/30/1996
Complet. Date: 12/31/1996
Operable Unit: 01
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Latitude : Not reported
Longitude : Not reported

EPA ID: ORD987185030
Site ID: 1001581
Name: EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION
Action Name: RECORD OF DECISION
Address: 18408 SAN RAFAEL STREET
MULTNOMAH COUNTY, OR 97230
EPA Region: 10
County: MULTNOMAH
Event Code: Not reported
Inst. Control: Deed Restriction
Actual Date: 12/30/1996
Complet. Date: 12/31/1996
Operable Unit: 02
Contaminated Media : Soil
Contact Name : Not reported
Contact Phone and Ext : Not reported
Latitude : Not reported
Longitude : Not reported

RCRA NonGen / NLR:
Date form received by agency: 05/16/1991
Facility name: EAST MULTNOMAH CO GW SITE
Facility address: 18408 NE SAN RAFAEL
GRESHAM, OR 97230
EPA ID: ORD987185030
Mailing address: 6TH AVE HW093
SEATTLE, WA 98101
Contact: DEBORAH ROBINSON
Contact address: 1200 6TH AVE HW093
SEATTLE, WA 98101
Contact country: US
Contact telephone: (206) 553-4691
Contact email: Not reported

EAST MULTNOMAH COUNTY GROUND WATER CONTAMINATION (Continued) **1000705894**

EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: REICHOLD CHEMICAL CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D000
. Waste name: Not Defined

Violation Status: No violations found

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:
PRP name: BRIDGESTONE/FIRESTONE, INC.
BRIDGESTONE/FIRESTONE, INC.
CITY OF PORTLAND
PORTLAND, CITY OF
WINMAR PACIFIC, INC.

31
East
1/2-1
0.797 mi.
4207 ft.

Relative:
Lower

Actual:
175 ft.

PELLA VINYL PORTLAND OPERATIONS
18600 NE WILKES RD
PORTLAND, OR 97230

ECSI **1000257090**
LUST **N/A**
UST
AST
FINDS
HSIS
NPDES
ECHO

ECSI:

State ID Number:	885
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	No Further Action
FACA ID:	1089
Further Action:	0
Lat/Long (dms):	45 32 25.10 / -122 28 15.60
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	009620113
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	29
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	7.9 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	03/29/2007
Created Date:	01/01/1989
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420
Alias Name:	Pella Vinyl Northwest
Alias Name:	Pella Windows & Doors

Hazardous Release:

Substance ID.:	121982
Haz Release ID:	385438
Qty Released:	unknown
Date Released:	unknown
Update Date:	01/01/1991
Update By:	Not reported
Substance Code:	ECD169
Substance Name:	DIESEL - FUEL OIL
Substance Abbrev.:	Not reported
Substance Category ID:	8529
Substance Category:	Petroleum Related Releases for OSPIRG Report
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8529

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Substance Category: Petroleum Related Releases for OSPIRG Report
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Comment ID: 304598
Release Code: Data Sources
Release Comments: RI/FS Report (10/90) prepared by Hart Crowser
Decode for Relcomcd: Data Sources
Sampling Result ID: 344719
Feature Id: Not reported
Hazard Release Id: 385438
Medium: 698
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: up to 5,600 ppm
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Groundwater
Sampling Result ID: 344720
Feature Id: Not reported
Hazard Release Id: 385438
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: up to 1,300 ppm
Last Update By: CONV
Update Date: 09/13/1994
Decode for MediumID: Soil

Narrative:
NARR ID: 5726761
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: (6/7/94 KPD/SRS) In October 1988, a below-ground release of diesel fuel from a corroded distribution line was discovered at the site. The tank was removed along with 291 cubic yards of contaminated soil. Seven inches of free-product was initially present on the water table. A recovery well and four monitoring wells were installed.

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Another four wells were installed as part of an RI/FS, which was completed in December 1990. In addition, in the late 1970s, spent methylene chloride was discharged to the ground to evaporate. An SI, performed in conjunction with the RI/FS, found no residual methylene chloride in the soil or groundwater.

NARR ID: 5726762
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) Dames & Moore Site Screening Report. 2) CERCLA Preliminary Assessment. 3) CERCLA Site Investigation. 4) Hart Crowser RI/FS and SI. 5) Laboratory Reports. 6) Project Manager files.

NARR ID: 5726763
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: diesel fuel, solvents

NARR ID: 5726764
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: Leaking underground storage tank (UST); time of release unknown.

NARR ID: 5726765
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 site is located in the East Multnomah County GW Study Area (ECSI #1479). Groundwater in the area is used for primary and secondary municipal water supplies. Portions of the aquifers are contaminated with industrial solvents, and the study is an attempt to determine the sources and extent of the contamination. The federal investigations at this site were performed as part of the study.

NARR ID: 5726766
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: (6/7/94 KPD/SRS) DEQ's Site Response Section (SRS) reviewed the

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

combined RI/FS and SI report in early 1991. SRS determined that no further action needed to be taken in the methylene chloride dumping area. Oversight of the diesel remediation was transferred to DEQ's Leaking Underground Storage Tank (LUST) Cleanup Program. The diesel cleanup is currently ongoing. For more information on the LUST remedial activities, see LUST Log #26-88-0069. (1/9/01 GMW/SAS) DEQ's UST Program certified the completion of the diesel cleanup in September 2000. (3/5/01 JMW/SAS) DEQ received a delisting petition from Viking representative on February 22, 2001. Public comment period for delisting is scheduled from April 1-30, 2001. (5/7/01 GMW/SAS) DEQ received no comments on the delisting notice. (9/11/01 JMW/SAS) Facility delisted from the CRL and Inventory in August 2001. No further action required.

NARR ID: 5726767
NARR Code: Substances of Concern
Created By: Not reported
Created Date: 12/17/2002
Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Substances of Concern
NARR Comments: Diesel, methylene chloride

Administrative Action:
Action ID: 9439
Region: Headquarters
Complete Date: 06/07/1991
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 Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9417
Region: Northwestern Region
Complete Date: 08/09/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility delisted from Confirmed Release List
Further Action: Not reported
Comments: Not reported

Action ID: 9418
Region: Northwestern Region
Complete Date: 08/09/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Facility delisted from Inventory List
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 08/09/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Action ID: 9413
Region: Northwestern Region
Complete Date: 02/26/1991
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Closeout activities on completed project
Further Action: Not reported
Comments: Project closeout, REFER to LUST.

Action ID: 9461
Region: Northwestern Region
Complete Date: 02/26/2001
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Petition to delist received
Further Action: Not reported
Comments: Not reported

Action ID: 9442
Region: Headquarters
Complete Date: 10/06/1989
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Decode for RegionID: Headquarters
Category: Remedial Action
Action Code Flag: False
Action: NEGOTIATIONS
Further Action: Not reported
Comments: Not reported

Action ID: 9412
Region: Headquarters
Complete Date: 10/06/1989
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: Consent Order
Further Action: Not reported
Comments: Not reported

Action ID: 9429
Region: Headquarters
Complete Date: 02/16/1991
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: FEASIBILITY STUDY
Further Action: Not reported
Comments: Not reported

Action ID: 9484
Region: Headquarters
Complete Date: 02/16/1990
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: REMEDIAL INVESTIGATION
Further Action: Not reported
Comments: Not reported

Action ID: 9480
Region: Headquarters
Complete Date: 03/06/1989
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Category: Remedial Action
Action Code Flag: False
Action: Federal Preliminary Assessment recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Headquarters
Complete Date: 07/31/1990
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: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499
Region: Headquarters
Complete Date: 07/31/1990
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: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9488
Region: Headquarters
Complete Date: 02/26/1991
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 on Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9489
Region: Headquarters
Complete Date: 02/26/1991
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

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Action Code Flag: False
Action: Listing on Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9477
Region: Northwestern Region
Complete Date: 11/06/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Refer to LUST Program
Further Action: Not reported
Comments: (LUST SI/RA - log #26-88-0069)

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: 9425
Region: Headquarters
Complete Date: 03/06/1989
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: SITE EVALUATION
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

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Action: Site added to database
Further Action: Not reported
Comments: Not reported

Action ID: 9426
Region: Headquarters
Complete Date: 06/07/1994
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: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Not reported

Action ID: 9438
Region: Headquarters
Complete Date: 06/07/1991
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: 9451
Region: Headquarters
Complete Date: 10/22/1990
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: Owner/operator comments received on listing notification
Further Action: Not reported
Comments: Not reported

Action ID: 9512
Region: Not reported
Complete Date: 09/30/1991
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

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Further Action: Not reported
Comments: Not reported

Action ID: 9451
Region: Headquarters
Complete Date: 12/23/1992
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: Owner/operator comments received on listing notification
Further Action: Not reported
Comments: Ltr dated 12/22/92 from James E. Benedict

Action ID: 9456
Region: Headquarters
Complete Date: 04/10/1989
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: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: Federal.

Action ID: 9437
Region: Headquarters
Complete Date: 07/30/1990
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: 9465
Region: Headquarters
Complete Date: 08/31/1990
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

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Comments: Not reported

Action ID: 9448
Region: Headquarters
Complete Date: 02/25/1991
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: Review for final listing
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Headquarters
Complete Date: 08/31/1990
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: 9451
Region: Headquarters
Complete Date: 06/25/1991
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: Owner/operator comments received on listing notification
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132186
Operation Status: Active
Common Name: Viking Industries Inc.
Yrs of Operation: 1974 to present
Comments: Manufacturer of aluminum frame storm windows and doors, and insulating glass
Updated Date: 03/16/1995
Updated By: jxh
Decode for OpstatID: Active
Operations SIC Id: 194924
SIC Code: 2819
Created By: Not reported
Created Date: 12/17/2002

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

LUST:
Region: North Western Region
Facility ID: 26-88-0069
Cleanup Received Date: 10/04/1988
Cleanup Start Date: 10/04/1988
Cleanup Complete Date: 09/06/2000
Decode for Region: North West Region

UST:
Facility ID: 4669
Facility Telephone: (503) 667-6030
Permittee Name: RICHARD MCINTYRE, HAZARDOUS MATERIAL MGR
Number of Permitted Tanks: Not reported
Active Tanks: Not reported
Decommissioned Tanks: 2
Number of Tanks: 2

AST:
Facility Id: 002621
Hazardous Substance: PROPANE
Reporting Quantities: 1,000-4,999
Quantity Units: GALLONS
Physical State: GAS
Storage 1: ABOVEGROUND TANK

FINDS:

Registry ID: 110004779990

Environmental Interest/Information System

OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect 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.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

HSIS:
Facility Id: 002621
Chemical Is Extremely Hazardous Substance (EHS): No

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Department Or Division Of Company:	BUILDINGS A
Facility Has Written Emergency Plan:	Yes
Contains 112R:	No
NAICS Code 1:	326199
NAICS Desc 1:	ALL OTHER PLASTICS PRODUCT MFG
NAICS Code 2:	000000
NAICS Desc 2:	Not reported
Manager Name:	KYLE RECKER
Business Phone:	5304059191
Mailing Address:	18600 NE WILKES RD
Mailing City,St,Zip:	PORTLAND, OR 97230
No. of Employees:	35
Day Phone:	5034059116
Placard:	Yes
Fire Dept Code:	0144
Sprinkler System:	Yes
Emergency Contact:	CHRISTINE BACH
Emergency Procedure:	COMPANY INTRANET - SAFETY OFFICE - VARIOUS LOCATIONS
Business Type:	WINDOW MFG

Facility:

Facility Id:	002621
Physical State Of The Substance:	1
Physical State:	SOLID
Average Amount Possessed During The Year Code:	20
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:	1,000-4,999
Most Hazardous Ingridient:	CARBON BLACK
United Nations/north America 4 Digit Class Number:	0000
Hazard Rank:	1
EHS Ingredient:	VINYL ACETATE
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

United Nations/north America 4 Digit Class Number: 0000
Chemical Abstract Service Identifier Number: 1333864
Chemical Is Extremely Hazardous Substance (EHS): No
First Hazardous Class Code For Chemical: Combustible Material
Second Hazardous Class Code For Chemical: Not reported
Third Hazardous Class Code For Chemical: Not reported
Hazard Class 1 Of The Chemical: 4.5
Hazard Class 2 Of The Chemical: Not reported
Hazard Class 3 Of The Chemical: Not reported
Chemical Is A Toxic 313 Chemical: No
EPA Pesticide Registration Number: Not reported
Contains 112R: Yes
Contains EHS: Yes
Fertilizer: No
Pesticide: No
Contains 313: Yes

Facility Id: 002621
Physical State Of The Substance: 1
Physical State: SOLID
Average Amount Possessed During The Year Code: 10
Maximum Amount Possessed During The Year Code: 11
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: 500-999
Description Of The Avg Qnty Code: 200-499
Most Hazardous Ingridient: TITANIUM DIOXIDE
United Nations/north America 4 Digit Class Number: 0000
Hazard Rank: 1
EHS Ingredient: VINYL ACETATE
Substance Pure: False
Substance Mix: True
First Hazardous Class Code For Chemical: Combustible Material
Second Hazardous Class Code For Chemical: Not reported
Third Hazardous Class Code For Chemical: Not reported
Hazard Class 1 Of The Chemical: 4.5
Hazard Class 2 Of The Chemical: Not reported
Hazard Class 3 Of The Chemical: Not reported

Chemical:
United Nations/north America 4 Digit Class Number: 0000
Chemical Abstract Service Identifier Number: 13463677
Chemical Is Extremely Hazardous Substance (EHS): No

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	Yes
Contains EHS:	Yes
Fertilizer:	No
Pesticide:	No
Contains 313:	Yes

Facility Id:	002621
Physical State Of The Substance:	2
Physical State:	LIQUID
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:	F
Description:	CAN
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:	50-199
Description Of The Avg Qnty Code:	50-199
Most Hazardous Ingridient:	TITANIUM DIOXIDE
United Nations/north America 4 Digit Class Number:	1263
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:

United Nations/north America 4 Digit Class Number:	1263
Chemical Abstract Service Identifier Number:	13463677
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
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

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

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 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
Contains 313:	Not reported

Facility Id:	002621
Physical State Of The Substance:	3
Physical State:	GAS
Average Amount Possessed During The Year Code:	11
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:	500-999
Most Hazardous Ingridient:	PROPANE
United Nations/north America 4 Digit Class Number:	1075
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON MSDS
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

Chemical:

United Nations/north America 4 Digit Class Number:	1075
Chemical Abstract Service Identifier Number:	74986
Chemical Is Extremely Hazardous Substance (EHS):	No
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

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Chemical Is A Toxic 313 Chemical: No
EPA Pesticide Registration Number: Not reported
Contains 112R: No
Contains EHS: No
Fertilizer: No
Pesticide: No
Contains 313: No

Facility Id: 002621
Physical State Of The Substance: 1
Physical State: SOLID
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: 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: 500-999
Description Of The Avg Qnty Code: 500-999
Most Hazardous Ingridient: POLYOLEFIN
United Nations/north America 4 Digit Class Number: 0000
Hazard Rank: 1
EHS Ingredient: NONE LISTED ON MSDS
Substance Pure: False
Substance Mix: True
First Hazardous Class Code For Chemical: Combustible Material
Second Hazardous Class Code For Chemical: Not reported
Third Hazardous Class Code For Chemical: Not reported
Hazard Class 1 Of The Chemical: 4.5
Hazard Class 2 Of The Chemical: Not reported
Hazard Class 3 Of The Chemical: Not reported

Chemical:
United Nations/north America 4 Digit Class Number: 0000
Chemical Abstract Service Identifier Number: 00000000
Chemical Is Extremely Hazardous Substance (EHS): No
First Hazardous Class Code For Chemical: Combustible Material
Second Hazardous Class Code For Chemical: Not reported
Third Hazardous Class Code For Chemical: Not reported
Hazard Class 1 Of The Chemical: 4.5
Hazard Class 2 Of The Chemical: Not reported
Hazard Class 3 Of The Chemical: Not reported
Chemical Is A Toxic 313 Chemical: No
EPA Pesticide Registration Number: Not reported
Contains 112R: No

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Contains EHS: No
Fertilizer: No
Pesticide: No
Contains 313: No

NPDES:
WQ File Nbr: 120478
Legal Name: VINYL NORTHWEST INC.
Region: NWR
Pri SIC: 3089
Facility Type: OTHER PLASTIC PRODUCTS, NEC
Latitude: 45.5396
Longitude: -122.4698
Category: STM
Permit Type: G12COLS
Permit Active: True
Is Active?: Not reported
Permit Description: Stormwater; NPDES discharge to Columbia Slough
Expiration Date: 09/30/2016
EPA Number: ORR208042
UIC Facility: False
Admin Agent: NW Region Office
Last Action Date: 05/16/2012
Permit Writer: Weaver
Compliance Inspector: Murphy
DMR Reviewer: Murphy
Application Number: 967672
Class: MINOR
Start Date: 12/28/2010
Region Decode: North West Region

ECHO:
Envid: 1000257090
Registry ID: 110004779990
FIPS Code: 41051
EPA Region: 10
Indian Country Flag: N
Federal Flag: Not reported
US Mexico Border Flag: Not reported
Chesapeake Bay Flag: Not reported
NAA Flag: Not reported
Latitude: 45.53977
Longitude: -122.47033
Map Icon: RCRA-IC-MN-N.png
Collection Method: ADDRESS MATCHING-HOUSE NUMBER
Reference Point: CENTER OF A FACILITY OR STATION
Accuracy Meters: 30
Derived Tribes: Not reported
Derived Huc: 17090012
Derived WBD: Not reported
Derived STCT FPS: 41051
Derived Zip: 97230
Derived CD113: 03
Derived CB2010: 410510096041006

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	07/31/1986
Days Last Inspection:	10643
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported
CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported

PELLA VINYL PORTLAND OPERATIONS (Continued) **1000257090**

CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	ORD009620113
RCRA Permit Types:	Other
RCRA NAICS:	326199
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	10643
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported
FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110004779990
Facility SIC Codes:	Not reported
Facility NAICS Codes:	326199
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	07/31/1986
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

G32 **HICKORY SPRINGS MANUFACTURING CO.** **ECSI** **S108390514**
NW **3900 NE 158TH AVE.** **AST** **N/A**
1/2-1 **PORTLAND, OR 97230** **SPILLS**
0.813 mi. **OR HAZMAT**
4293 ft. **Site 1 of 2 in cluster G** **HSIS**
NPDES

Relative:
Lower

Actual:
46 ft.

ECSI:

State ID Number:	984
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	No Further Action
FACA ID:	33664
Further Action:	0
Lat/Long (dms):	45 33 5.40 / -122 29 58.20
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	053597316
Township Coord.:	1.00
Township Zone:	N
Range Coord:	2.00
Range Zone:	E
Section Coord:	24
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	3 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	12/12/2006
Created Date:	04/22/1988
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Not reported

Alias Name: United Foam Corp.

Narrative:

NARR ID:	5731004
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: (8/3/92 KPD/SAS) EPA investigated this polyurethane-foam manufacturer in 1980, 1984, and 1988. No hazardous wastes were generated or disposed of on-site. However, hazardous materials such as toluene diisocyanate (TDI) and methylene chloride, used in the production process, were temporarily stored outside on asphalt. United Foam declared bankruptcy in 1986. Site was purchased by Hickory Springs from trustee. Hazardous materials still on-site were either used in the production process or properly disposed of off-site. Polyurethane foam production continues. No spills or releases of hazardous materials have been reported. (5/27/00 MTP/SAP) Documentation in DEQ files indicates that polyurethane foam production has been the primary site activity since site development in 1971. Environmental

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

data for the site is limited to storm-water discharge sampling and the UST investigation, and generally do not appear to indicate a significant threat to human health or the environment. According to AQ records, the chlorinated solvent 1,1,1-TCA is present in air emissions from the facility; there is no evidence of TCE and/or PCE use at the site. Based on its volume and length of time in use, the chlorinated hydrocarbon methylene chloride appears the most likely contaminant to have impacted the environment. However, this compound has not been detected in City wells, and is not a contaminant of concern in the Columbia Slough.

NARR ID: 5731005
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) Inspection reports. 2) Correspondence FROM owner and/or operator. 3) MetroScan CD Rom, Tax Assessor Records, Multnomah County, Oregon. 4) Oregon Water Resources Department's Well Log Database (GRID). 5) Oregon Department of Fish and Wildlife's Oregon Rivers Information System (ORIS) Database. 6) Swanson, R.D., W.D. McFarland, J.B. Gunthier, and J.M. Wilkinson, 1993, Description of Hydrogeologic Units in the Portland Basin, Oregon and Washington.

NARR ID: 5731006
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: Toluene di-isocyanate (TDI) and methylene chloride; urethane sludge.

NARR ID: 5731007
NARR Code: Site Location
Created By: Not reported
Created Date: 12/17/2002
Updated By: GWISTAR
Updated Date: 02/23/2011
Decode for NarcdID: Site Location
NARR Comments: North of Sandy Blvd. on NE 158th.

NARR ID: 5731008
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 primary pathway of concern is the stormwater drain system, and the on-site septic system and drainfield. Samples of storm water runoff collected since 1994 show generally low levels of metals and petroleum that do not appear to present a significant threat to human health or the environment. Concentrations of these constituents in storm water prior to 1994 are not known.

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

NARR ID: 5731009
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: (8/3/92 KPD/SAS) EPA determined no further action was necessary under the federal Superfund program. Since no hazardous materials are known to have been disposed of on-site, Site Assessment recommends no further action under the state cleanup program at this time. (5/27/00 MTP/SAP) DEQ is assessing potential contaminant sources in the vicinity of the Columbia South Shore Wellfield (CSSW). The CSSW has been identified as a high-priority area for site investigation. A Site Assessment Review Notice was sent to Hickory Springs in February 2000. A Strategy Recommendation was completed on March 4, 2000. Although the SAPS score of 43 corresponds to a low priority, the site has had no documented releases, and there is no indication that the chlorinated hydrocarbons PCE or TCE, or metals are generated or used in site processes. Site Assessment concurs with the previous finding that no further investigative work is required at the site.

Administrative Action:
Action ID: 9508
Region: Northwestern Region
Complete Date: 02/03/1999
Rank Value: 43
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Screening recommended (EV)
Further Action: Low
Comments: CSSW Project.

Action ID: 9443
Region: Northwestern Region
Complete Date: 03/04/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: Not reported
Comments: Not reported

Action ID: 9459
Region: Northwestern Region
Complete Date: 03/04/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: CSSW Project.

Action ID: 9427
Region: Northwestern Region
Complete Date: 03/04/2000
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Listing Action
Action Code Flag: False
Action: Excluded from confirmed release definition
Further Action: Not reported
Comments: Not reported

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: 9425
Region: Headquarters
Complete Date: 08/03/1992
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: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 08/04/1992
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9427
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: Listing Action
Action Code Flag: False
Action: Excluded from confirmed release definition
Further Action: Not reported
Comments: No hazardous substances released at site.

Action ID: 9443
Region: Headquarters
Complete Date: 08/06/1992
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
Action: NO FURTHER STATE ACTION REQUIRED
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: 9458
Region: Not reported
Complete Date: 03/07/1988
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

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Action Code Flag: False
Action: EPA Preliminary Assessment 2
Further Action: Not reported
Comments: Not reported

Action ID: 9457
Region: Not reported
Complete Date: 09/26/1984
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: 9444
Region: Not reported
Complete Date: 03/07/1988
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: No Further Remedial Action Planned under Federal program
Further Action: Not reported
Comments: Not reported

Operations:
Operation Id: 132282
Operation Status: Active
Common Name: Hickory Springs Manufacturing Co.
Yrs of Operation: 1987 to present
Comments: polyurethane foam manufacturer
Updated Date: 03/21/1996
Updated By: kpd
Decode for OpstatID: Active
Operations SIC Id: 196184
SIC Code: 3086
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 132283
Operation Status: Inactive
Common Name: United Foam Corp.
Yrs of Operation: 1971-1986
Comments: polyurethane foam manufacturer
Updated Date: 03/21/1996
Updated By: kpd
Decode for OpstatID: Inactive
Operations SIC Id: 196185
SIC Code: 3086
Created By: Not reported

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Created Date: 12/17/2002

AST:
Facility Id: 008501
Hazardous Substance: PLURACOL 4156 POLYOL
Reporting Quantities: 50,000-99,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK

Facility Id: 008501
Hazardous Substance: TOLUENE DIISOCYANATE (TDI)
Reporting Quantities: 10,000-49,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK
Storage 2: TANK INSIDE BUILDING

Facility Id: 008501
Hazardous Substance: ACETONE
Reporting Quantities: 5,000-9,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK

Facility Id: 008501
Hazardous Substance: MULTRANOL 3901 (POLYOL CS835)
Reporting Quantities: 1,000-4,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK

OR SPILLS:
Facility ID: 2010-0098
Incident Status: Archive
Material: Diesel fuel
Quantity: 1
Unit of Measure: Gallons
Release Date: 01/13/2010
Description: Caller reporting that a garbage truck entered their parking lot spilling diesel fuel. The fuel spill caused a sheen on the parking lot. The responsible party is AGG Enterprises who has been called and is going to send someone to clean it up. AGG's contact number is 503-283-2015.
Lat/Long: 45.5509 / -122.5
Source: Motor Vehicle - Commercial
Media: Suspected, unknown, or no discharge
Responsible Company: Not reported
Responsible Address: Not reported
Responsible City,St,Zip: Not reported

Facility ID: 2010-0098
Incident Status: Archive
Material: Diesel fuel
Quantity: 1
Unit of Measure: Gallons

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Release Date: 01/13/2010
Description: Caller reporting that a garbage truck entered their parking lot spilling diesel fuel. The fuel spill caused a sheen on the parking lot. The responsible party is AGG Enterprises who has been called and is going to send someone to clean it up. AGG's contact number is 503-283-2015.
Lat/Long: 45.5509 / -122.5
Source: Motor Vehicle - Commercial
Media: On pavement/asphalt - not direct on soil
Responsible Company: Not reported
Responsible Address: Not reported
Responsible City,St,Zip: Not reported

Facility ID: 2006-2579
Incident Status: Archive
Material: Not reported
Quantity: 10
Unit of Measure: Gallons
Release Date: 10/13/2006
Description: 10 gallons of Toluene Disocyanate released due to human error, to a contained area inside the building. Building has been evacuated as per spill contingency plan; Fire Dept is on scene.
Lat/Long: 45.5509 / -122.5
Source: Industrial Plant
Media: Not reported
Responsible Company: Hickory Springs of California, Inc.
Responsible Address: 3900 NE 158th Ave
Responsible City,St,Zip: Portland, OR 97230-5002

HAZMAT:

Responsble Party:	Not reported
RP Company:	HICKORY SPRINGS
RP Address:	39001 NE 158TH AVE
RP City,St,Zip:	PORTLAND, OR 97230
Facility ID:	060054
OERS Number:	20062579
Dept Rsp:	PORTLAND BUREAU OF F&R&EMS
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	PORTLAND BUREAU OF F&R&EMS
Date Added:	12/30/2005
Unit:	Not reported
Agency Phone:	5038233856
Osfm Incident Report Number:	060054
Dept. Responding:	PORTLAND BUREAU OF F&R&EMS
Person Making Report:	COFFEY
Title:	STATE COORDINAT
Agency:	PORTLAND BUREAU OF F&R&EMS
Phone:	5038233856
Date Of Incident:	10/13/2006
Call Time:	7:29:00 AM
In Route:	7:33:00 AM
Arrival:	7:47:00 AM
Depart Scene:	9:14:00 AM
Back In Quarters:	9:18:00 AM
In Service:	9:18:00 AM
Dist Of Incident:	PORTLAND BUREAU OF F&R&EMS
Were State Resources Used?:	True
Was Oers Notified?:	True
Oers Number:	20062579
Team Number:	HM06
Agency Report Number:	FP06049750
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Private Structure
Area Type:	Industrial
Responsible Party(Ies):	Not reported
Company:	HICKORY SPRINGS
Respcontact:	RAYMOND BOTTEEN
Address:	39001 NE 158TH AVE
Resp City:	PORTLAND
Resp State:	OR
Resp ZipCode:	97230
Phone:	5032554650
Resp Phone2:	Not reported
Weather:	1
Temperature:	3
Wind Speed:	1
Wind Direction:	E
Were Haz Materials Released?:	True

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Operation Performed:	Normal Operation
Cause:	Equipment Malfunction
Vehicle And Cargo:	0
Fixed Property:	0
Total Loss:	$0.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

Chemical:

Chemical Info:	425
Chemical Id:	29520
Incident Id:	060054
Chemical Name:	TOLUENE
UNNA:	Not reported
Amount At Risk:	1000
Amount Released:	20
Amount Measured:	2
Biological:	False
Radiological:	False

Chemical Id:	29520
Chemical Name:	TOLUENE
Hazardous Ingredient:	TOLUENE
Hazardous Class 1:	3.2
Hazardous Class 2:	6.3
Hazardous Rank:	2
Case Number:	108883
UNNA Number:	1294
EPA Pest Reg:	Not reported
EHA Chem:	N
PSM Chem:	N
CAA 112R Chem:	N

Method:

Method Used Id:	7347
Incident Id:	060054
Identity Method:	5

Released:

Release Behavior Id:	450
Incident Id:	060054
Behavior:	7

Release Behavior Id:	451
Incident Id:	060054
Behavior:	4

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Narrative:
Narrative Id: 7729
Incident Id: 060054
Incident Narrative: Hazmat 6 responded on a chemical liquid spill at Hickory Springs. Met RP at facility and were told the product was 20+ gallons of Toluene in liquid form, fully contained in the plant containment system in one room. Assisted plant hzwoper team with entry and monitoring with level C. Leak to valve and/or piping. Stood by until plant had under control and released scene to RP. Hm121 Coffey and C3 Rasmussen on scene, with Portland Engine for water supply if needed.
Incident Date: 10/13/2006

HSIS:
Facility Id: 008501
Chemical Is Extremely Hazardous Substance (EHS): No
Department Or Division Of Company: PORTLAND
Facility Has Written Emergency Plan: Yes
Contains 112R: Yes
NAICS Code 1: 326150
NAICS Desc 1: URETHANE & OTHER FOAM PRODUCT (EXC POLYSTY
NAICS Code 2: 000000
NAICS Desc 2: Not reported
Manager Name: MARK JONES
Business Phone: 5032555850
Mailing Address: 3900 NE 158TH ST
Mailing City,St,Zip: PORTLAND, OR 97230
No. of Employees: 31
Day Phone: 5032555850
Placard: Yes
Fire Dept Code: 0291
Sprinkler System: Yes
Emergency Contact: DEVIN TRAFTON
Emergency Procedure: HUMAN RESOURCE OFFICE
Business Type: FOAM MFG

Facility:
Facility Id: 008501
Physical State Of The Substance: 3
Physical State: GAS
Average Amount Possessed During The Year Code: 11
Maximum Amount Possessed During The Year Code: 11
Applicable Unit Of Measure Code: 3
Description Of The Unit Of Measure: CUBIC FEET
Type Code: L
Description: CYLINDER
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

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

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:	NITROGEN
United Nations/north America 4 Digit Class Number:	1002
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Non-flammable Gas
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	2.2
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	1002
Chemical Abstract Service Identifier Number:	7727379
Chemical Is Extremely Hazardous Substance (EHS):	No
First Hazardous Class Code For Chemical:	Non-flammable Gas
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	2.2
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	008501
Physical State Of The Substance:	2
Physical State:	LIQUID
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:	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:	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:	335
Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	5,000-9,999

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Description Of The Avg Qnty Code:	5,000-9,999
Most Hazardous Ingridient:	DIPHENYLMETHANE DIISOCYANATE
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:	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

Chemical:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	101688
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
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
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
Contains 313:	Not reported

Facility Id:	008501
Physical State Of The Substance:	2
Physical State:	LIQUID
Average Amount Possessed During The Year Code:	31
Maximum Amount Possessed During The Year Code:	31
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:	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:	50,000-99,999
Description Of The Avg Qnty Code:	50,000-99,999
Most Hazardous Ingridient:	POLYOL
United Nations/north America 4 Digit Class Number:	0000

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Hazard Rank:	1
EHS Ingredient:	Not reported
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	0000
Chemical Abstract Service Identifier Number:	000000
Chemical Is Extremely Hazardous Substance (EHS):	No
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	008501
Physical State Of The Substance:	1
Physical State:	SOLID
Average Amount Possessed During The Year Code:	21
Maximum Amount Possessed During The Year Code:	21
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
Days Hazardous Substance On Site During Year:	36
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:	SULFURIC ACID
United Nations/north America 4 Digit Class Number:	2794
Hazard Rank:	4
EHS Ingredient:	SULFURIC ACID
Substance Pure:	False

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

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:

United Nations/north America 4 Digit Class Number:	2794
Chemical Abstract Service Identifier Number:	7664939
Chemical Is Extremely Hazardous Substance (EHS):	No
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 Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	Yes
Fertilizer:	No
Pesticide:	No
Contains 313:	Yes

Facility Id:	008501
Physical State Of The Substance:	2
Physical State:	LIQUID
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:	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:	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:	POLYISOCYANATE POLYADDITION (PIPA)
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

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

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:
United Nations/north America 4 Digit Class Number: Not reported
Chemical Abstract Service Identifier Number: 80316398
Chemical Is Extremely Hazardous Substance (EHS): Not reported
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 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
Contains 313: Not reported

NPDES:
WQ File Nbr: 100646
Legal Name: HICKORY SPRINGS OF CALIFORNIA, INC.
Region: Not reported
Pri SIC: 3086
Facility Type: Not reported
Latitude: Not reported
Longitude: Not reported
Category: Not reported
Permit Type: GEN12H
Permit Active: Not reported
Is Active?: FALSE
Permit Description: Not reported
Expiration Date: Not reported
EPA Number: Not reported
UIC Facility: Not reported
Admin Agent: Not reported
Last Action Date: Not reported
Permit Writer: Not reported
Compliance Inspector: Not reported
DMR Reviewer: Not reported
Application Number: Not reported
Class: Not reported
Start Date: Not reported
Region Decode: Not reported

WQ File Nbr: 100646
Legal Name: HICKORY SPRINGS OF CALIFORNIA, INC.
Region: Not reported
Pri SIC: 3086
Facility Type: Not reported
Latitude: Not reported

HICKORY SPRINGS MANUFACTURING CO. (Continued) **S108390514**

Longitude:	Not reported
Category:	Not reported
Permit Type:	GEN12Z
Permit Active:	Not reported
Is Active?:	FALSE
Permit Description:	Not reported
Expiration Date:	Not reported
EPA Number:	Not reported
UIC Facility:	Not reported
Admin Agent:	Not reported
Last Action Date:	Not reported
Permit Writer:	Not reported
Compliance Inspector:	Not reported
DMR Reviewer:	Not reported
Application Number:	Not reported
Class:	Not reported
Start Date:	Not reported
Region Decode:	Not reported

WQ File Nbr:	100646
Legal Name:	HICKORY SPRINGS OF CALIFORNIA, INC.
Region:	NWR
Pri SIC:	3086
Facility Type:	PLASTIC FOAM PRODUCTS
Latitude:	45.5515
Longitude:	-122.4995
Category:	STM
Permit Type:	G12COLS
Permit Active:	True
Is Active?:	Not reported
Permit Description:	Stormwater; NPDES discharge to Columbia Slough
Expiration Date:	09/30/2016
EPA Number:	ORR230261
UIC Facility:	False
Admin Agent:	City of Portland
Last Action Date:	09/12/2012
Permit Writer:	Jurries
Compliance Inspector:	Jurries
DMR Reviewer:	Jurries
Application Number:	967810
Class:	MINOR
Start Date:	01/21/2000
Region Decode:	North West Region

G33 **ARNDT FAMILY FARM** **ECSI** **S108572179**
NW **3849 NE 158TH AVE** **LUST** **N/A**
1/2-1 **PORTLAND, OR 97230** **VCP**
0.849 mi.
4481 ft. **Site 2 of 2 in cluster G**

Relative:
Lower

Actual:
41 ft.

ECSI:

State ID Number:	4781
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	831
Investigation:	No Further Action
FACA ID:	99992

ARNDT FAMILY FARM (Continued) **S108572179**

Further Action:	0
Lat/Long (dms):	45 33 4.70 / -122 30 2.50
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	Not reported
Township Coord.:	1.00
Township Zone:	N
Range Coord:	2.00
Range Zone:	E
Section Coord:	24
Qtr Section:	Not reported
Tax Lots:	700 and 100
Size:	5 acres
NPL:	False
Orphan:	False
Updated By:	DHAFLEY
Update Date:	11/07/2007
Created Date:	03/13/2007
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	No Further Action
Decode For Legislative:	Owner, operator or other party under agreement, order or consent decree under ORS 465.200 or 465.420

Hazardous Release:

Substance ID.:	121373
Haz Release ID:	387017
Qty Released:	Not reported
Date Released:	Not reported
Update Date:	03/13/2007
Update By:	JWAGGY
Substance Code:	50-29-3
Substance Name:	DDT,p,p'-
Substance Abbrev.:	Not reported
Substance Alias ID:	318555
Sub Alias Name:	BIS(p-CHLOROPHENYL)-2,2,2-TRICHLOROETHANE,1,1-
Substance Alias ID:	318556
Sub Alias Name:	CHLOROPHENOTHANE
Substance Alias ID:	318557
Sub Alias Name:	DICHLORODIPHENYLTRICHLOROETHANE
Substance Alias ID:	318558
Sub Alias Name:	ETHANE,1,1,1-TRICHLORO-2,2-BIS(p-CHLOROPHENYL)-
Sampling Result ID:	349121
Feature Id:	0
Hazard Release Id:	387017
Medium:	703
Substance Abbrev.:	0
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:	0.360 mg/kg

ARNDT FAMILY FARM (Continued) **S108572179**

Last Update By: JWAGGY
Update Date: 03/13/2007
Decode for MediumID: Soil

Substance ID.: 121614
Haz Release ID: 387018
Qty Released: Not reported
Date Released: Not reported
Update Date: 03/13/2007
Update By: JWAGGY
Substance Code: 72-54-8
Substance Name: DDD,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319194
Sub Alias Name: DICHLORO-2,2-BIS(p-CHLOROPHENYL)ETHANE,1,1-
Substance Alias ID: 319195
Sub Alias Name: DICHLORODIPHENYLDICHLOROETHANE
Substance Alias ID: 319196
Sub Alias Name: RHOTHANE
Substance Alias ID: 319197
Sub Alias Name: TDE
Substance Alias ID: 319198
Sub Alias Name: TDE,p,p'-
Substance Alias ID: 319199
Sub Alias Name: TETRACHLORODIPHENYLETHANE
Sampling Result ID: 349122
Feature Id: 0
Hazard Release Id: 387018
Medium: 703
Substance Abbrev.: 0
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: 0.130 mg/kg
Last Update By: JWAGGY
Update Date: 03/13/2007
Decode for MediumID: Soil

Substance ID.: 121615
Haz Release ID: 387019
Qty Released: Not reported
Date Released: Not reported
Update Date: 03/13/2007
Update By: JWAGGY
Substance Code: 72-55-9
Substance Name: DDE,p,p'-
Substance Abbrev.: Not reported
Substance Alias ID: 319200
Sub Alias Name: BIS(p-CHLOROPHENYL)-1,1-DICHLOROETHYLENE,2,2-
Substance Alias ID: 319201
Sub Alias Name: DICHLORODIPHENYL DICHLOROETHYLENE,p,p'-

ARNDT FAMILY FARM (Continued) **S108572179**

Substance Alias ID: 319202
Sub Alias Name: DICHLOROETHENYLIDENE)BIS(4-CHLOROBENZENE),1,1'-(-
Sampling Result ID: 349123
Feature Id: 0
Hazard Release Id: 387019
Medium: 703
Substance Abbrev.: 0
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: 0.130 mg/kg
Last Update By: JWAGGY
Update Date: 03/13/2007
Decode for MediumID: Soil

Substance ID.: 121516
Haz Release ID: 387020
Qty Released: Not reported
Date Released: Not reported
Update Date: 03/13/2007
Update By: JWAGGY
Substance Code: 60-57-1
Substance Name: DIELDRIN
Substance Abbrev.: Not reported
Substance Alias ID: 318927
Sub Alias Name: HEOD
Substance Alias ID: 318928
Sub Alias Name: OCTALOX

Substance ID.: 121612
Haz Release ID: 387021
Qty Released: Not reported
Date Released: Not reported
Update Date: 03/13/2007
Update By: JWAGGY
Substance Code: 72-20-8
Substance Name: ENDRIN
Substance Abbrev.: Not reported
Substance Alias ID: 319187
Sub Alias Name: HEXADRIN
Substance Alias ID: 319188
Sub Alias Name: MENDRIN
Substance Alias ID: 319189
Sub Alias Name: NENDRIN
Sampling Result ID: 349124
Feature Id: 0
Hazard Release Id: 387021
Medium: 703
Substance Abbrev.: 0
Unit Code: Not reported
Observation: False

ARNDT FAMILY FARM (Continued) **S108572179**

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: 0.065 mg/kg
Last Update By: JWAGGY
Update Date: 03/13/2007
Decode for MediumID: Soil

Narrative:
NARR ID: 5749101
NARR Code: Contamination
Created By: JWAGGY
Created Date: 03/13/2007
Updated By: GWISTAR
Updated Date: 03/26/2007
Decode for NarcdID: Contamination
NARR Comments: (3/5/07 DJH/ICP) Property operated as farm since 1935. Minor releases of pesticides and metals to soil from legal application and spills at pesticide mixing area.

NARR ID: 5749236
NARR Code: Data Sources
Created By: GWISTAR
Created Date: 04/27/2007
Updated By: DHAFLEY
Updated Date: 05/14/2014
Decode for NarcdID: Data Sources
NARR Comments: Limited Environmental Site Assessment completed by Maul Foster Alongi in 2006. UST cleanup report previously submitted to DEQ NWR LUST Program. Independent Cleanup Program Final Report issued on February 14, 2007 by Robert D. Miller Consulting. Results of Additional Sampling & Work Plan submitted by RDM May 30, 2007. Results of Final Sampling and Pesticide Cleanup submitted July 3, 2007. Public notice of proposed NFA October 1 through 30, 2007.Soil investigation results for property at 3849 NE 158th Avenue, Portland, Oregon (ECSI# 4781). Maul foster Alongi, May 8, 2014.

NARR ID: 5749099
NARR Code: Hazardous Substance/Waste Types
Created By: JWAGGY
Created Date: 03/13/2007
Updated By: JWAGGY
Updated Date: 03/13/2007
Decode for NarcdID: Hazardous Substance/Waste Types
NARR Comments: Agricultural-related pesticides and herbicides, metals.

NARR ID: 5749842
NARR Code: Project Issues Summary
Created By: DHAFLEY
Created Date: 11/07/2007
Updated By: DHAFLEY
Updated Date: 11/07/2007
Decode for NarcdID: Project Issues Summary
NARR Comments: Following removal of site petroleum USTs and soil containing

ARNDT FAMILY FARM (Continued) **S108572179**

pesticides above occupational direct contact values, a NFA was issued for the site on 11/6/07. Because low-level pesticide contamination remains at the site, soil cannot be considered clean fill and must be managed according during future site development. Also, an on-site supply well (not currently in use) should be decommissioned following Oregon Water Resources Division guidelines.

NARR ID: 5749100
NARR Code: Manner of Release
Created By: JWAGGY
Created Date: 03/13/2007
Updated By: DHAFLEY
Updated Date: 11/07/2007
Decode for NarcdID: Manner of Release
NARR Comments: Manner: long-term legal application and minor spills in pesticide mixing area and loading dock portions of Processing Barn. Minor releases from fuel USTs at Equipment Shed.

NARR ID: 5749102
NARR Code: Remedial Action
Created By: JWAGGY
Created Date: 03/13/2007
Updated By: DHAFLEY
Updated Date: 05/14/2014
Decode for NarcdID: Remedial Action
NARR Comments: (3/5/07 DJH/ICP) Site review underway in DEQ's Independent Cleanup Pathway. UST decommissioning and limited pesticide-impacted soil cleanup (122 tons) completed prior to DEQ involvement.(11/7/07 DJH/ICP) Following DEQ review of ICP Report (dated 2/07), additional soil sampling was requested. Elevated pesticides were detected around Processing Barn. After a second round of soil sampling, impacted surface soil (56 tons) were removed and transported to Hillsboro Landfill for disposal. Following public notice of a proposed NFA, DEQ issued the NFA 11/6/07. No further action is required; however as site soil contains low-level pesticide residues, it cannot be considered clean fill.(05/14/14 DJH) In May 2014, DEQ Cleanup received a report presenting the results of supplementary soil and groundwater sampling completed on the subject site and adjoining properties the north and west (***soil investigation results for property at 3849 NE 158th Avenue, Portland, Oregon ECSI# 4781)***. The report, prepared by Maul Foster Alongi and dated May 8, 2014, indicates that only modestly-elevated concentrations of dieldrin were detected in shallow soil, with reasonable maximum exposure values (based on 90% UCL) below relevant risk-based concentrations. Contaminants were not detected in wells on the former Arndt property.

NARR ID: 5749098
NARR Code: Site History
Created By: JWAGGY
Created Date: 03/13/2007
Updated By: JWAGGY
Updated Date: 03/13/2007
Decode for NarcdID: Site History
NARR Comments: Agriculture since approximately 1935.

NARR ID: 5755150
NARR Code: 1922

ARNDT FAMILY FARM (Continued) **S108572179**

Created By: DHAFLEY
Created Date: 05/14/2014
Updated By: DHAFLEY
Updated Date: 05/14/2014
Decode for NarcdID: Current Site Summary Statement
NARR Comments: DEQ issued the NFA 11/6/07. No further action is required; however as site soil contains low-level pesticide residues, it cannot be considered clean fill.(05/14/14 DJH) In May 2014, DEQ Cleanup received a report presenting the results of supplementary soil and groundwater sampling completed on the subject site and adjoining properties the north and west (***soil investigation results for property at 3849 NE 158th Avenue, Portland, Oregon ECSI# 4781)***. The report, prepared by Maul Foster Alongi and dated May 8, 2014, indicates that only modestly-elevated concentrations of dieldrin were detected in shallow soil, with reasonable maximum exposure values (based on 90% UCL) below relevant risk-based concentrations. Contaminants were not detected in wells on the former Arndt property. Redevelopment of the site and adjoining lots for commerical or light industrial purposes appears to be planned.

Administrative Action:
Action ID: 9424
Region: Not reported
Complete Date: 03/13/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/13/2007
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: 9435
Region: Northwestern Region
Complete Date: 11/05/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 03/13/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Independent Cleanup Program
Further Action: 0
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 11/06/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 11/07/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action

ARNDT FAMILY FARM (Continued) **S108572179**

Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: NFA issued for the site 11/6/07. Because low levels of pesticides (below occupational PRGs) remain, care must be taken when site development occurs to keep soil out of nearby street catchbasins.

Operations:
Operation Id: 135256
Operation Status: Active
Common Name: Bottaro/Arndt Family Farm
Yrs of Operation: 1935 - Present
Comments: Agriculture since approximately 1935
Updated Date: 03/13/2007
Updated By: JWAGGY
Decode for OpstatID: Active

LUST:
Region: North Western Region
Facility ID: 26-06-1938
Cleanup Received Date: 11/01/2006
Cleanup Start Date: 10/28/2006
Cleanup Complete Date: 03/15/2007
Decode for Region: North West Region

VCS:
ECS Site ID: 4781
Facility Size: 5 acres
Action: NO FURTHER STATE ACTION REQUIRED
Start Date: 11/06/2007
End Date: 11/06/2007
Facility Status: Completed
Program: ICP
Latitude: 45.55129
Longitude: -122.5006

H34 **BOEING OF PORTLAND - FABRICATION DIVISION** **ECSI** **S108658674**
ENE **19000 NE SANDY BLVD** **CRL** **N/A**
1/2-1 **PORTLAND, OR 97230** **AST**
0.864 mi. **INST CONTROL**
4561 ft. **Site 1 of 2 in cluster H** **SPILLS**
OR HAZMAT
Relative: **HSIS**
Lower **NPDES**

Actual: **77 ft.**

ECSI:
State ID Number: 13
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 831
Investigation: Listed on the CRL/Inventory
FACA ID: 727
Further Action: 0
Lat/Long (dms): 45 32 35.20 / -122 27 55.40
County Code: 26.00
Score Value: Not reported

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Cerclis ID:	054964481
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	29
Qtr Section:	Not reported
Tax Lots:	79,118
Size:	79.2 acres
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	05/02/2006
Created Date:	04/15/1988
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
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

Hazardous Release:

Substance ID.:	121610
Haz Release ID:	378752
Qty Released:	Unknown
Date Released:	Unknown
Update Date:	04/15/1988
Update By:	Not reported
Substance Code:	71-55-6
Substance Name:	TRICHLOROETHANE,1,1,1-
Substance Abbrev.:	Not reported
Substance Category ID:	8521
Substance Category:	Volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8552
Substance Category:	Solvents of interest to Milwaukie Area GW study
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8521
Substance Category:	Volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8552
Substance Category:	Solvents of interest to Milwaukie Area GW study
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	318151
Sub Alias Name:	TCA,1,1,1-
Substance Alias ID:	319183
Sub Alias Name:	BALTANA
Substance Alias ID:	319184
Sub Alias Name:	CHLOROTHENE
Substance Alias ID:	319185

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Sub Alias Name: METHYLCHLOROFORM
Comment ID: 302897
Release Code: Data Sources
Release Comments: Phase 1 Draft Final Report, 9/87, Landau Associates, Inc
Decode for Relcomcd: Data Sources
Sampling Result ID: 345012
Feature Id: Not reported
Hazard Release Id: 378752
Medium: 698
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: 1,430 ppb
Last Update By: kpd
Update Date: 07/24/1996
Decode for MediumID: Groundwater
Sampling Result ID: 345396
Feature Id: Not reported
Hazard Release Id: 378752
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: 4,670 ppb
Last Update By: kpd
Update Date: 02/12/1998
Decode for MediumID: Soil

Substance ID.: 121781
Haz Release ID: 385664
Qty Released: Unknown
Date Released: Past practices and spills over time.
Update Date: 04/15/1988
Update By: Not reported
Substance Code: 79-01-6
Substance Name: TRICHLOROETHYLENE
Substance Abbrev.: Not reported
Substance Category ID: 8523
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8545

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Substance Category:	Solvents of interest to Milwaukie Area GW study
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8523
Substance Category:	Volatiles
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Category ID:	8545
Substance Category:	Solvents of interest to Milwaukie Area GW study
Category Level:	Not reported
Created By:	Not reported
Created Date:	12/17/2002
Substance Alias ID:	317517
Sub Alias Name:	ETHINYL TRICHLORIDE
Substance Alias ID:	317518
Sub Alias Name:	ETHYLENE TRICHLORIDE
Substance Alias ID:	317519
Sub Alias Name:	TCE
Substance Alias ID:	317520
Sub Alias Name:	TRI-CLENE
Substance Alias ID:	317521
Sub Alias Name:	TRICHLOROETHENE
Comment ID:	302911
Release Code:	Data Sources
Release Comments:	Phase 1 Final Draft Report, 9/87, Landau Associates, Inc
Decode for Relcomcd:	Data Sources
Sampling Result ID:	345247
Feature Id:	Not reported
Hazard Release Id:	385664
Medium:	698
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:	2,990 ppb
Last Update By:	kpd
Update Date:	02/12/1998
Decode for MediumID:	Groundwater
Sampling Result ID:	350275
Feature Id:	0
Hazard Release Id:	385664
Medium:	700
Substance Abbrev.:	0
Unit Code:	Not reported
Observation:	False
Owner Operator:	False
Lab Data:	True
Sample Depth:	Not reported
Start Date:	05/23/2011

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

End Date: Not reported
Min Concentration: Not reported
Max Concentration: Not reported
Sample Comment: 850,000 ug/m3 soil gas
Last Update By: RWILLIA
Update Date: 12/14/2011
Decode for MediumID: Other

Substance ID.: 121701
Haz Release ID: 385665
Qty Released: Unknown
Date Released: Unknown
Update Date: 04/15/1988
Update By: Not reported
Substance Code: 75-35-4
Substance Name: DICHLOROETHYLENE,1,1-
Substance Abbrev.: Not reported
Substance Category ID: 8512
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8553
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8512
Substance Category: Volatiles
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Category ID: 8553
Substance Category: Solvents of interest to Milwaukie Area GW study
Category Level: Not reported
Created By: Not reported
Created Date: 12/17/2002
Substance Alias ID: 319364
Sub Alias Name: DICHLOROETHENE,1,1-
Substance Alias ID: 319365
Sub Alias Name: DICHLOROETHYLENE,asym-
Substance Alias ID: 319366
Sub Alias Name: ETHENE,1,1-DICHLORO-
Substance Alias ID: 319367
Sub Alias Name: VINYLIDENE CHLORIDE
Comment ID: 302905
Release Code: Data Sources
Release Comments: Phase 1 Draft Final Report, 9/87, Lnadau Associates, Inc
Decode for Relcomcd: Data Sources
Sampling Result ID: 345397
Feature Id: Not reported
Hazard Release Id: 385665
Medium: 698
Substance Abbrev.: Not reported
Unit Code: Not reported
Observation: False
Owner Operator: False

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

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: 4,100 ppb
Last Update By: kpd
Update Date: 07/24/1996
Decode for MediumID: Groundwater

Narrative:
NARR ID: 5751956
NARR Code: Contamination
Created By: MKENT
Created Date: 01/25/2010
Updated By: MKENT
Updated Date: 01/25/2010
Decode for NarcdID: Contamination
NARR Comments: Liquid waste containing chlorinated solvents and non-chlorinated solvents generated from parts cleaning, metal machining, metal plating and painting operations have been handled onsite and resulted in releases to the subsurface. Primary contaminants are chlorinated solvents that have been released to the underlying Troutdale Gravel Aquifer and Troutdale Sandstone Aquifer.

NARR ID: 5730718
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 ECD Site Response files. 2. CERCLIS File. 3. Site Investigation. 4. Correspondence from owner and/or operator. 5. Monitoring data.

NARR ID: 5751955
NARR Code: General Site Description
Created By: MKENT
Created Date: 01/25/2010
Updated By: MKENT
Updated Date: 01/25/2010
Decode for NarcdID: General Site Description
NARR Comments: The Boeing of Portland facility is located at 19000 NE Sandy Boulevard with Interstate 84 to the south. The western property margin is generally aligned with NE 185th Avenue. The eastern property abuts the adjacent Boyd’s Coffee property.

NARR ID: 5730719
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: TCE, PCE, DCE, TCA

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

NARR ID: 5751959
NARR Code: Land Use (Current/Reasonably Likely)
Created By: MKENT
Created Date: 01/25/2010
Updated By: MKENT
Updated Date: 01/25/2010
Decode for NarcdID: Land Use (Current/Reasonably Likely)
NARR Comments: Current land use is industrial.

NARR ID: 5730720
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002
Updated By: RWILLIA
Updated Date: 03/21/2011
Decode for NarcdID: Manner of Release
NARR Comments: Disposal on-site, historic leakage via onsite production well, waste management practices and spills over time.

NARR ID: 5748883
NARR Code: Media Contamination
Created By: JWAGGY
Created Date: 01/02/2007
Updated By: JWAGGY
Updated Date: 01/02/2007
Decode for NarcdID: Media Contamination
NARR Comments: Soil on-site. TGA groundwater on-site, and off-site to the north.

NARR ID: 5730677
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 site is included in the East Multnomah County study area (ECSI #1479) and is located upgradient and cross-gradient from a number of private and public wells. Alternate water supplies have been provided to residences with contaminated wells.

NARR ID: 5725882
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: RWILLIA
Updated Date: 06/18/2014
Decode for NarcdID: Remedial Action
NARR Comments: (2/9/98 BAG/SRS) EPA is overseeing cleanup of groundwater at the site under authority of the Resource Conservation and Recovery Act (RCRA). A Corrective Measures Study (CMS) was conducted to evaluate beneficial uses of treated groundwater, the feasibility of conducting soil vapor extraction, and the need to treat air discharges from air stripper. Phase I of the CMS was finalized in July 1995, Phase II in March 1996, and Phase III in June 1996. EPA issued a final cleanup decision in July 1997. A Corrective Measures Implementation (CMI) work plan was approved in November 1997. Groundwater extraction and soil vapor extraction wells are now being installed.(2/09/05 BG/SRS).

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Corrective Action activities involving groundwater pump/treat (air stripping) and soil vapor extraction continuing. Discussions underway with EPA to transfer lead responsibility for oversight of cleanup to DEQ.(1/2/2007 MDK/SRS) Letter Agreement as of May 11, 2006, provides for cost recovery during negotiations for DEQ Consent Order for assumption of oversight from EPA. Order expected to be completed in First quarter 2007. At the 85-105 building a spill of coolant was discovered in summer 2006. The coolant spill was cleaned up and impacted groundwater is now collected by the building footing sump, for treatment and disposal to the sanitary sewer. In 2008 two injections of oxygen and nutrient releasing compound (EHC-O) were used to enhance remediation of spilled coolant. (3/21/2011 RKW/SRS) In 2008 a bioremediation injection program was implemented for TGA groundwater in the West Corrective Action Area. Monitoring has shown decreases of up to 40 ppb in TCE concentration but several pockets of higher contamination remained. In preparation for Building 85-001 expansion a soil investigation west of the building was completed in 2008. In May 2010 520 yards of TCE-contaminated soil was removed for disposal at Hillsboro Landfill.Two former vapor degreasers were historically located inside the 85-001 building. These features were thought to be sources of TCE contamination but investigation was always hindered by the crowded location inside the facility and difficult drilling conditions. New compact roto-sonic drill rigs enabled investigation and three wells were installed around former degreaser location in 2009. Soil vapor and groundwater was sampled and indicated a substantial source area. Additional investigation and remediation planning is ongoing.In spring 2011 a subsurface investigation of soil and soil vapor is planned for the area west of Building 85-105 in preparation for relocating the forging storage facility to this area. TGA groundwater extraction and treatment continues.(6/6/11 RKW/SRS) A coolant spill was reported below equipment in the 85-001 building in late April 2011. Contaminated soil was excavated to a maximum depth of 4.5 feet. Remaining residual contamination in sidewalls and the bottom of excavation was below cleanup levels. With a depth to water of 50 feet in this area it is very unlikely that coolant could have reached groundwater. (10/17/11 RKW/SRS) The soil and soil vapor investigation performed in the forging storage yard area did not detect VOCs that would indicate environmental impacts. An investigation of the DST Equipment foundation, in the NW corner of the 85-105 Building, found significant concentrations of TCE and cis-1,2-DCE in one soil vapor sample. Further investigation of this area and all other TGA source areas is in the planning stages. (12/14/11 RKW/SRS) After extensive investigation a remedy combining soil vapor extraction (SVE) and a bioremediation permeable reactive barrier will be installed in the holiday shutdown period at the Boeing plant. Startup is anticipated in early 2012.(6/18/14 RKW/SRS) The SVE and bioremediation programs have been successful at bringing down groundwater and soil gas concentrations at the former vapor degreaser area. Groundwater concentrations of TCE daughter products such as vinyl chloride have increased while TCE has been decreasing. There is a central high concentration area where more time will be needed to bring concentrations down.

NARR ID: 5751958
NARR Code: Health Threats
Created By: MKENT

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Created Date: 01/25/2010
Updated By: MKENT
Updated Date: 01/25/2010
Decode for NarcdID: Health Threats
NARR Comments: Chlorinated solvents are present in underlying TGA and TSA drinking water aquifers and present a threat to City of Portland municipal drinking water supplies, as well as local private drinking water sources.

NARR ID: 5751960
NARR Code: Water Use (Current/Reasonably Likely)
Created By: MKENT
Created Date: 01/25/2010
Updated By: MKENT
Updated Date: 01/25/2010
Decode for NarcdID: Water Use (Current/Reasonably Likely)
NARR Comments: Current use of TGA and TSA groundwater is municipal and domestic waters supply, and irrigation.

NARR ID: 5751961
NARR Code: Institutional Control
Created By: MKENT
Created Date: 01/25/2010
Updated By: MKENT
Updated Date: 01/25/2010
Decode for NarcdID: Institutional Control
NARR Comments: Institutional Controls Plan for TGA at Boeing Portland implemented December 20, 2005, to remove all extraction wells within the plume and institutional control area (bound by 181st Ave, Interstate 84, eastern limits of TGA, to about 4000 feet north of Sandy Blvd) except for remedy extraction wells, and review of any wells proposed to be installed within the control area. ICP approved by EPA and will terminate when cleanup is complete and lead agency agrees to termination.

NARR ID: 5751957
NARR Code: Site History
Created By: MKENT
Created Date: 01/25/2010
Updated By: RWILLIA
Updated Date: 03/21/2011
Decode for NarcdID: Site History
NARR Comments: From 1964 to 1974 historic manufacturing activities occurred at the site. In 1974 Boeing leased and occupied the site to conduct airplane component manufacturing and assembly. Boeing purchased the site in 1979 and continues its airplane manufacturing and assembly operations to the present. Liquid wastes, generated from manufacturing operations, have historically been released to the subsurface.

NARR ID: 5751962
NARR Code: 1922
Created By: MKENT
Created Date: 01/25/2010
Updated By: RWILLIA
Updated Date: 12/14/2011
Decode for NarcdID: Current Site Summary Statement
NARR Comments: (3/21/11 RKW/CU&ER) Boeing oversight transferred from EPA to DEQ in

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

2007 and evaluation of cleanup progress and potential additional measures is ongoing. The BOP-22ds monitoring well evaluated and found to leak to upper TSA; abandonded and replaced with BOP-22Rds in 2009. BOP-60ds monitoring well evaluated, found to leak to upper TSA and proposal for abandonment and replacement with BOP-60Rds has been approved by DEQ and will be implemented in early 2010. Expansion of building 85-001 will begin in 2010 requiring removal of TGA extraction system west of the building. Soil with minor TCE contamination was removed from the west side of the building. A bioremediation additional measure for the TGA groundwater plume west of bldg 85-001 was conducted in 2008/2009. Investigation of contamination beneath bldg 85-001 at the former degreaser location was conducted in late 2009. Startup for a combined soil vapor extraction and in-situ bio remedy for the degreaser area is anticipated in early 2012. Boeing is currently evaluating other historic source areas to identify potential additional measures and a strategy for completion of site cleanup.

Site Control:
Site Control #: 262
Control Number: 4
Begin Date: 02/09/1998
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Bruce Gilles
Last Reviewed Date: 02/09/1998
Last Update By: JPALMER
Last Updated Date: 06/10/2005
Site Comment: Institutional control governing groundwater use & excavations within facility. EPA RCRA Lead - secondary evaluation under ECSI #1479

Administrative Action:
Action ID: 9412
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/25/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Consent Order
Further Action: 0
Comments: Transfer oversight of site cleanup from EPA Region 10 to ODEQ.

Action ID: 9471
Region: Northwestern Region
Complete Date: Not reported
Rank Value: Not reported
Cleanup Flag: False
Created Date: 06/21/2010
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RCRA Corrective Action
Further Action: 0

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Comments: Not reported

Action ID: 9409
Region: Northwestern Region
Complete Date: 07/31/1995
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Beneficial Water Use Assessment
Further Action: Not reported
Comments: Not reported

Action ID: 9494
Region: Northwestern Region
Complete Date: 03/31/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: RECORD OF DECISION
Further Action: Not reported
Comments: Not reported

Action ID: 9473
Region: Northwestern Region
Complete Date: 08/14/1998
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL DESIGN
Further Action: Not reported
Comments: Not reported

Action ID: 9469
Region: Northwestern 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: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: REMEDIAL ACTION
Further Action: 0
Comments: RCRA Corrective Action - EPA Region 10 is Lead Agency

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Action ID: 9437
Region: Headquarters
Complete Date: 11/19/1997
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: 9438
Region: Headquarters
Complete Date: 04/07/1998
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: 04/07/1998
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 Inventory
Further Action: Not reported
Comments: Not reported

Action ID: 9498
Region: Headquarters
Complete Date: 11/19/1997
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: Proposal for Confirmed Release List recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9499

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Region: Headquarters
Complete Date: 11/19/1997
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: Proposal for Inventory recommended
Further Action: Not reported
Comments: Not reported

Action ID: 9467
Region: Headquarters
Complete Date: 12/22/1997
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: 9465
Region: Headquarters
Complete Date: 12/22/1997
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: 9434
Region: Northwestern Region
Complete Date: Not reported
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Environmental Protection Agency
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Institutional Control
Further Action: Not reported
Comments: ICON governing GW use & excavations within facility. See REMA narrative.

Action ID: 9459

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Region: Headquarters
Complete Date: 06/14/1991
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: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 06/13/1991
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: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9412
Region: Northwestern Region
Complete Date: 01/18/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Consent Order
Further Action: Not reported
Comments: Not reported

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

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

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: 9468
Region: Not reported
Complete Date: 08/23/1985
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 PA1/SI1
Further Action: Not reported
Comments: State lead - Site is part of proposed NPL site.

Action ID: 9445
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: Listing Action
Action Code Flag: False
Action: Responsible party notified re 11/88 Inventory listing
Further Action: Not reported
Comments: Not reported

Action ID: 9440
Region: Northwestern Region
Complete Date: 10/12/2007
Rank Value: Not reported
Cleanup Flag: False
Created Date: 01/02/2007
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Letter Agreement
Further Action: 0
Comments: Provides cost recover during negotiation of Consent Order moving site from EPA to DEQ oversight.

Operations:
Operation Id: 131415
Operation Status: Active

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Common Name: Boeing of Portland
Yrs of Operation: 1974 to present
Comments: Machine shop (machines and fabricates aircraft parts)
Updated Date: 07/24/1996
Updated By: kpd
Decode for OpstatID: Active
Operations SIC Id: 195529
SIC Code: 3728
Created By: Not reported
Created Date: 12/17/2002

CRL:
Facility ID: 13
Location ID: 727
Status Code: LIS
Facility Status: REMEDIAL ACTION
Lat/Long: 45.5431 / -122.4654

AST:
Facility Id: 002705
Hazardous Substance: WASTEWATER SHOP AND SCRUBBER (POR00176)
Reporting Quantities: 5,000-9,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK

Facility Id: 002705
Hazardous Substance: PROPANE
Reporting Quantities: 1,000-4,999
Quantity Units: GALLONS
Physical State: GAS
Storage 1: ABOVEGROUND TANK
Storage 2: CYLINDER

Facility Id: 002705
Hazardous Substance: DIESEL FUEL
Reporting Quantities: 1,000-4,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK

Facility Id: 002705
Hazardous Substance: DEOXIDIZER SOLUTION
Reporting Quantities: 500-999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK

Facility Id: 002705
Hazardous Substance: WASTE CARBON (POR00164)
Reporting Quantities: 10,000-49,999
Quantity Units: POUNDS
Physical State: SOLID
Storage 1: ABOVEGROUND TANK

Facility Id: 002705

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Hazardous Substance: WASTE ULTRACHROMATE (POR00161)
Reporting Quantities: 1,000-4,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK

Facility Id: 002705
Hazardous Substance: HYDRAULIC FLUID
Reporting Quantities: 10,000-49,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK
Storage 2: STEEL DRUM

Facility Id: 002705
Hazardous Substance: SODIUM HYPOCHLORITE
Reporting Quantities: 5,000-9,999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK
Storage 2: PLASTIC OR NON-METALLIC DRUM

Facility Id: 002705
Hazardous Substance: WASTE CARBON
Reporting Quantities: 5,000-9,999
Quantity Units: POUNDS
Physical State: SOLID
Storage 1: ABOVEGROUND TANK

Facility Id: 002705
Hazardous Substance: NITROGEN LIQUID
Reporting Quantities: 10,000-49,999
Quantity Units: GALLONS
Physical State: GAS
Storage 1: ABOVEGROUND TANK
Storage 2: DEWAR

Facility Id: 002705
Hazardous Substance: MAGNESIUM PREP/DESCALE SOLUTION
Reporting Quantities: 500-999
Quantity Units: GALLONS
Physical State: LIQUID
Storage 1: ABOVEGROUND TANK

OR INSTUTIONAL CONTROL:
Site Control Sequence #: 262
Site Id: 13
Control Sequence #: 4
Begin Date: 02/09/1998
End Date: Not reported
Frequency Of Review: 0
Last Reviewed By: Bruce Gilles
Last Review Date: 02/09/1998
Last Updated By: JPALMER
Last Updated Date: 06/10/2005
Group Sequence #: 2
Control Code: USG

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Control Description: Use Restriction Groundwater
FK Type Code: 1
Group Code: PR
Group Description: Proprietary
Type Code: I
Type Description: Institutional
Comments: Institutional control governing groundwater use & excavations within facility. EPA RCRA Lead - secondary evaluation under ECSI #1479

OR SPILLS:
Facility ID: 2003-2750
Incident Status: Archive
Material: Products, manufacturing intermediates, etc.
Quantity: 42
Unit of Measure: Gallons
Release Date: 12/10/2003
Description: IN THE PROCESS OF DEMOLISHING A BUILDING A SPILL OF METAL INSPECTION FLUID (OIL BASED) WAS DISCOVERED. LOCATION IS COLUMN H3385-001 BUILDING. IT WAS DISCOVERED THAT THE INTEGRITY OF THE PIPING SYSTEM WAS WEAK AND A POTENTIAL AMOUNT OF 42 GAL WAS LEAKED INTO THE SOIL. COWLITZ CLEAN SWEEP OF PORTLAND WILL BE DOING THE CLEAN UP. NO IMPACT TO WATER WAY.
Lat/Long: 45.5431 / -122.4654
Source: Business
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: Boeing
Responsible Address: 19000 NE Sandy Blvd
Responsible City,St,Zip: Portland, OR 97230-6810

Facility ID: 2003-2750
Incident Status: Archive
Material: Products, manufacturing intermediates, etc.
Quantity: 42
Unit of Measure: Gallons
Release Date: 12/10/2003
Description: IN THE PROCESS OF DEMOLISHING A BUILDING A SPILL OF METAL INSPECTION FLUID (OIL BASED) WAS DISCOVERED. LOCATION IS COLUMN H3385-001 BUILDING. IT WAS DISCOVERED THAT THE INTEGRITY OF THE PIPING SYSTEM WAS WEAK AND A POTENTIAL AMOUNT OF 42 GAL WAS LEAKED INTO THE SOIL. COWLITZ CLEAN SWEEP OF PORTLAND WILL BE DOING THE CLEAN UP. NO IMPACT TO WATER WAY.
Lat/Long: 45.5431 / -122.4654
Source: Business
Media: Non-saturated soil, rock, etc.
Responsible Company: Boeing
Responsible Address: 19000 NE Sandy Blvd
Responsible City,St,Zip: Portland, OR 97230-6810

Facility ID: 2011-1033
Incident Status: Archive
Material: Products, manufacturing intermediates, etc.
Quantity: 42
Unit of Measure: Gallons
Release Date: 04/26/2011
Description: Boeing in Gresham reporting the spill of 42 gallons coolant from their facility over an extended period of time. The material is suspected to have left the building through a crack in the concrete and impacted

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

soils underneath the facility. Groundwater at the site is at approximately 80'. No known ground or surface water impacts.
Lat/Long: 45.5431 / -122.4654
Source: Business
Media: Suspected, unknown, or no discharge
Responsible Company: Boeing
Responsible Address: PO Box 20487
Responsible City,St,Zip: Portland, OR 97294-0487

Facility ID: 2011-1033
Incident Status: Archive
Material: Products, manufacturing intermediates, etc.
Quantity: 42
Unit of Measure: Gallons
Release Date: 04/26/2011
Description: Boeing in Gresham reporting the spill of 42 gallons coolant from their facility over an extended period of time. The material is suspected to have left the building through a crack in the concrete and impacted soils underneath the facility. Groundwater at the site is at approximately 80'. No known ground or surface water impacts.
Lat/Long: 45.5431 / -122.4654
Source: Business
Media: Non-saturated soil, rock, etc.
Responsible Company: Boeing
Responsible Address: PO Box 20487
Responsible City,St,Zip: Portland, OR 97294-0487

Facility ID: 2002-1123
Incident Status: Archive
Material: Unprocessed/semi-processed oils
Quantity: 1
Unit of Measure: Gallons
Release Date: 05/17/2002
Description: Boeing found sheen in dry wells.
Lat/Long: 45.5431 / -122.4654
Source: Well
Media: Not reported
Responsible Company: Boeing facility
Responsible Address: 19000 NE Sandy Blvd
Responsible City,St,Zip: Portland, OR 97230-6810

Facility ID: 2002-1084
Incident Status: Archive
Material: Unprocessed/semi-processed oils
Quantity: 40
Unit of Measure: Gallons
Release Date: 05/09/2002
Description: Undetermined amount of oil released from machines and leaked through floor seam caulking into the soil.
Lat/Long: 45.5431 / -122.4654
Source: Industrial Plant
Media: Non-saturated soil, rock, etc.
Responsible Company: Boeing
Responsible Address: 19000 NE Sandy Blvd
Responsible City,St,Zip: Portland, OR 97230-6810

Facility ID: 2001-2665

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Incident Status: Archive
Material: Unprocessed/semi-processed oils
Quantity: 40
Unit of Measure: Gallons
Release Date: 10/18/2001
Description: Coolant/oil product water & oil based - to soil. 90' above ground water.
Lat/Long: 45.5431 / -122.4654
Source: Industrial Plant
Media: Non-saturated soil, rock, etc.
Responsible Company: Boeing
Responsible Address: 19000 NE Sandy Blvd
Responsible City,St,Zip: Portland, OR 97230-6810

Facility ID: 1998-2274
Incident Status: Archive
Material: Unprocessed/semi-processed oils
Quantity: 0
Unit of Measure: Gallons
Release Date: 09/23/1998
Description: Spill- Cutting Oil leak going through a floor seam (90% water 10% oil) first pits show contamination over 3' deep. Contractor is defining nature & content of contamination.
Lat/Long: 45.5431 / -122.4654
Source: Industrial Plant
Media: Non-saturated soil, rock, etc.
Responsible Company: Boeing
Responsible Address: PO Box 20487
Responsible City,St,Zip: Portland, OR 97294-0487

Facility ID: 2009-2556
Incident Status: Archive
Material: Process water, etc.
Quantity: 10000
Unit of Measure: Gallons
Release Date: 11/07/2009
Description: Boeing reporting loss of less than 10,000 gallons treated wastewater when they simultaneously discharged treated wastewater and fire suppression water. Incident caused by bad planning which overwhelmed the system. Dennis Jurries is their DEQ contact. I have forwarded the OERS report for his information.
Lat/Long: 45.5431 / -122.4654
Source: Business
Media: Suspected, unknown, or no discharge
Responsible Company: Boeing
Responsible Address: 19000 NE Sandy Blvd
Responsible City,St,Zip: Portland, OR 97230-6810

Facility ID: 2009-2556
Incident Status: Archive
Material: Process water, etc.
Quantity: 10000
Unit of Measure: Gallons
Release Date: 11/07/2009
Description: Boeing reporting loss of less than 10,000 gallons treated wastewater when they simultaneously discharged treated wastewater and fire suppression water. Incident caused by bad planning which overwhelmed

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

the system. Dennis Jurries is their DEQ contact. I have forwarded the OERS report for his information.
Lat/Long: 45.5431 / -122.4654
Source: Business
Media: Not reported
Responsible Company: Boeing
Responsible Address: 19000 NE Sandy Blvd
Responsible City,St,Zip: Portland, OR 97230-6810

HAZMAT:

Responsble Party:	Not reported
RP Company:	BOEING OF PORTLAND
RP Address:	Not reported
RP City,St,Zip:	Not reported
Facility ID:	950015
OERS Number:	Not reported
Dept Rsp:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Date Added:	01/01/1985
Unit:	Not reported
Agency Phone:	Not reported
Osfm Incident Report Number:	950015

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Dept. Responding:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Person Making Report:	Not reported
Title:	Not reported
Agency:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Phone:	Not reported
Date Of Incident:	04/17/1995
Call Time:	12:00:00 AM
In Route:	12:00:00 AM
Arrival:	12:00:00 AM
Depart Scene:	12:00:00 AM
Back In Quarters:	12:00:00 AM
In Service:	12:00:00 AM
Dist Of Incident:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Were State Resources Used?:	False
Was Oers Notified?:	False
Oers Number:	Not reported
Team Number:	HM03
Agency Report Number:	Not reported
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Not reported
Area Type:	Not reported
Responsible Party(Ies):	Not reported
Company:	BOEING OF PORTLAND
Respcontact:	Not reported
Address:	Not reported
Resp City:	Not reported
Resp State:	Not reported
Resp ZipCode:	Not reported
Phone:	Not reported
Resp Phone2:	Not reported
Weather:	0
Temperature:	0
Wind Speed:	0
Wind Direction:	Not reported
Were Haz Materials Released?:	False
Operation Performed:	Not reported
Cause:	Unknown
Vehicle And Cargo:	0
Fixed Property:	0
Total Loss:	$0.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

Chemical:

Chemical Info:	7214
Chemical Id:	35430
Incident Id:	950015

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Chemical Name:	UNKNOWN CHEMICAL
UNNA:	Not reported
Amount At Risk:	0
Amount Released:	0
Amount Measured:	0
Biological:	False
Radiological:	False

Chemical Id:	35430
Chemical Name:	UNKNOWN CHEMICAL
Hazardous Ingredient:	UNKNOWN CHEMICAL
Hazardous Class 1:	9.0
Hazardous Class 2:	Not reported
Hazardous Rank:	2
Case Number:	Not reported
UNNA Number:	Not reported
EPA Pest Reg:	Not reported
EHA Chem:	Not reported
PSM Chem:	Not reported
CAA 112R Chem:	Not reported

HSIS:

Facility Id:	002705
Chemical Is Extremely Hazardous Substance (EHS):	Yes
Department Or Division Of Company:	FABRICATION DIVISION
Facility Has Written Emergency Plan:	Yes
Contains 112R:	No
NAICS Code 1:	336411
NAICS Desc 1:	AIRCRAFT MFG
NAICS Code 2:	000000
NAICS Desc 2:	Not reported
Manager Name:	JAMES MCNERNEY
Business Phone:	9715630123
Mailing Address:	PO BOX 20487 5P2-200
Mailing City,St,Zip:	PORTLAND, OR 972940487
No. of Employees:	1750
Day Phone:	5036761568
Placard:	Yes
Fire Dept Code:	0144
Sprinkler System:	Yes
Emergency Contact:	JOHN RUSOFF
Emergency Procedure:	SITE SECURITY OFC
Business Type:	MANUFACTURE AIRPLANE PARTS

Facility:

Facility Id:	002705
Physical State Of The Substance:	1
Physical State:	SOLID
Average Amount Possessed During The Year Code:	20
Maximum Amount Possessed During The Year Code:	20
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	I
Description:	FIBER DRUM
Type Code:	Not reported
Temperature Description:	Not reported

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

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:	1,000-4,999
Most Hazardous Ingridient:	SODIUM HYDROXIDE
United Nations/north America 4 Digit Class Number:	1824
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:	Acute Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	8.0
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	1824
Chemical Abstract Service Identifier Number:	1310732
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
First Hazardous Class Code For Chemical:	Corrosive Material
Second Hazardous Class Code For Chemical:	Acute Health Hazard
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	8.0
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported
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
Contains 313:	Not reported

Facility Id:	002705
Physical State Of The Substance:	2
Physical State:	LIQUID
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
Pressure of Code:	Not reported

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

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:	ETHANOL, 2,2',2"-NITRILOTRIS-
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:	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

Chemical:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	102716
Chemical Is Extremely Hazardous Substance (EHS):	No
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
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	002705
Physical State Of The Substance:	3
Physical State:	GAS
Average Amount Possessed During The Year Code:	11
Maximum Amount Possessed During The Year Code:	11
Applicable Unit Of Measure Code:	3
Description Of The Unit Of Measure:	CUBIC FEET
Type Code:	L
Description:	CYLINDER
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

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

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:	ARGON
United Nations/north America 4 Digit Class Number:	1956
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON MSDS
Substance Pure:	False
Substance Mix:	True
First Hazardous Class Code For Chemical:	Acute Health Hazard
Second Hazardous Class Code For Chemical:	Non-flammable Gas
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	6.3
Hazard Class 2 Of The Chemical:	2.2
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	1956
Chemical Abstract Service Identifier Number:	7440371
Chemical Is Extremely Hazardous Substance (EHS):	No
First Hazardous Class Code For Chemical:	Acute Health Hazard
Second Hazardous Class Code For Chemical:	Non-flammable Gas
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	6.3
Hazard Class 2 Of The Chemical:	2.2
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	002705
Physical State Of The Substance:	2
Physical State:	LIQUID
Average Amount Possessed During The Year Code:	10
Maximum Amount Possessed During The Year Code:	20
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
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

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Is The Substance Protected A Trade Secret:	False
Description Of The Max Qnty Code:	1,000-4,999
Description Of The Avg Qnty Code:	200-499
Most Hazardous Ingridient:	VARIOUS
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:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	Not reported
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
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 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
Contains 313:	Not reported

Facility Id:	002705
Physical State Of The Substance:	2
Physical State:	LIQUID
Average Amount Possessed During The Year Code:	30
Maximum Amount Possessed During The Year Code:	30
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:	10,000-49,999
Description Of The Avg Qnty Code:	10,000-49,999

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Most Hazardous Ingridient:	SODIUM SILICATE
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:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	6834920
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
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 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
Contains 313:	Not reported

NPDES:

WQ File Nbr:	9269
Legal Name:	BOEING COMPANY, THE
Region:	NWR
Pri SIC:	3728
Facility Type:	AIRCRAFT PARTS
Latitude:	45.5431
Longitude:	-122.4654
Category:	STM
Permit Type:	G12COLS
Permit Active:	True
Is Active?:	Not reported
Permit Description:	Stormwater; NPDES discharge to Columbia Slough
Expiration Date:	09/30/2016
EPA Number:	ORR110120
UIC Facility:	False
Admin Agent:	NW Region Office
Last Action Date:	04/06/2012
Permit Writer:	Murphy
Compliance Inspector:	Murphy
DMR Reviewer:	Murphy
Application Number:	967791
Class:	MINOR
Start Date:	12/29/1999

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Region Decode: North West Region

WQ File Nbr: 9269
Legal Name: BOEING COMPANY, THE
Region: NWR
Pri SIC: 3728
Facility Type: AIRCRAFT PARTS
Latitude: 45.5431
Longitude: -122.4654
Category: STM
Permit Type: GEN12C
Permit Active: True
Is Active?: Not reported
Permit Description: Stormwater; NPDES construction more than 1 acre disturbed ground
Expiration Date: 11/30/2015
EPA Number: ORR10C261
UIC Facility: False
Admin Agent: NW Region Office
Last Action Date: 10/21/2015
Permit Writer: Jurries
Compliance Inspector: Jurries
DMR Reviewer: Jurries
Application Number: 957863
Class: MINOR
Start Date: 11/12/2008
Region Decode: North West Region

WQ File Nbr: 9269
Legal Name: BOEING COMPANY, THE
Region: NWR
Pri SIC: 3728
Facility Type: AIRCRAFT PARTS
Latitude: 45.5431
Longitude: -122.4654
Category: STM
Permit Type: GEN12C
Permit Active: True
Is Active?: Not reported
Permit Description: Stormwater; NPDES construction more than 1 acre disturbed ground
Expiration Date: 11/30/2015
EPA Number: ORR10C261
UIC Facility: False
Admin Agent: NW Region Office
Last Action Date: 10/21/2015
Permit Writer: Jurries
Compliance Inspector: Jurries
DMR Reviewer: Jurries
Application Number: 957863
Class: MINOR
Start Date: 11/12/2008
Region Decode: North West Region

WQ File Nbr: 9269
Legal Name: BOEING COMPANY, THE
Region: Not reported
Pri SIC: 3728
Facility Type: Not reported

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Latitude:	Not reported
Longitude:	Not reported
Category:	Not reported
Permit Type:	GEN01
Permit Active:	Not reported
Is Active?:	FALSE
Permit Description:	Not reported
Expiration Date:	Not reported
EPA Number:	Not reported
UIC Facility:	Not reported
Admin Agent:	Not reported
Last Action Date:	Not reported
Permit Writer:	Not reported
Compliance Inspector:	Not reported
DMR Reviewer:	Not reported
Application Number:	Not reported
Class:	Not reported
Start Date:	Not reported
Region Decode:	Not reported

WQ File Nbr:	9269
Legal Name:	BOEING COMPANY, THE
Region:	Not reported
Pri SIC:	3728
Facility Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Category:	Not reported
Permit Type:	GEN12L
Permit Active:	Not reported
Is Active?:	FALSE
Permit Description:	Not reported
Expiration Date:	Not reported
EPA Number:	Not reported
UIC Facility:	Not reported
Admin Agent:	Not reported
Last Action Date:	Not reported
Permit Writer:	Not reported
Compliance Inspector:	Not reported
DMR Reviewer:	Not reported
Application Number:	Not reported
Class:	Not reported
Start Date:	Not reported
Region Decode:	Not reported

WQ File Nbr:	9269
Legal Name:	BOEING COMPANY, THE
Region:	Not reported
Pri SIC:	3728
Facility Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Category:	Not reported
Permit Type:	NPDES-IW-N
Permit Active:	Not reported
Is Active?:	FALSE
Permit Description:	Not reported

BOEING OF PORTLAND - FABRICATION DIVISION (Continued) **S108658674**

Expiration Date:	Not reported
EPA Number:	Not reported
UIC Facility:	Not reported
Admin Agent:	Not reported
Last Action Date:	Not reported
Permit Writer:	Not reported
Compliance Inspector:	Not reported
DMR Reviewer:	Not reported
Application Number:	Not reported
Class:	Not reported
Start Date:	Not reported
Region Decode:	Not reported

H35 **BOEING OF PORTLAND** **CERCLIS** **1000257073**
ENE **19000 NE SANDY BLVD** **CORRACTS** **ORD054964481**
1/2-1 **PORTLAND, OR 97230** **RCRA-LQG**
0.864 mi. **US ENG CONTROLS**
4561 ft. **Site 2 of 2 in cluster H** **US INST CONTROL**
US FIN ASSUR
Relative: **2020 COR ACTION**
Lower **RAATS**
US AIRS
Actual: **FINDS**
77 ft. **MANIFEST**

CERCLIS:

Site ID:	1000428
EPA ID:	ORD054964481
Facility County:	MULTNOMAH
Short Name:	BOEING OF PORTLAND
Congressional District:	03
IFMS ID:	Not reported
SMSA Number:	6440
USGC Hydro Unit:	17090012
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	1001581
RST Code:	Not reported
EPA Region:	10
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Site is Part of NPL Site
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Not reported
Non NPL Status Date:	/ /
Site Fips Code:	41051
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 02/01/81
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: 02/11/85
Date Completed: 08/23/85
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: 02/11/85
Date Completed: 08/23/85
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

CORRACTS:

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950801
Action: CA350 - CMS Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19990301

BOEING OF PORTLAND (Continued) **1000257073**

Action:	CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s):	336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	ORD054964481
EPA Region:	10
Area Name:	FACILITY
Actual Date:	19990301
Action:	CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s):	336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	ORD054964481
EPA Region:	10
Area Name:	FACILITY
Actual Date:	19931001
Action:	CA180 - RFI Supplemental Implementation Begun
NAICS Code(s):	336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	ORD054964481
EPA Region:	10
Area Name:	FACILITY
Actual Date:	20020502
Action:	CA500 - CMI Workplan Approved
NAICS Code(s):	336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	ORD054964481
EPA Region:	10
Area Name:	FACILITY
Actual Date:	19961203
Action:	CA350 - CMS Approved
NAICS Code(s):	336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	ORD054964481
EPA Region:	10
Area Name:	TGA GROUNDWATER
Actual Date:	19961203
Action:	CA350 - CMS Approved
NAICS Code(s):	336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

BOEING OF PORTLAND (Continued) **1000257073**

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19970303
Action: CA380 - Date For Public Notice On Proposed Remedy
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: TGA GROUNDWATER
Actual Date: 19970303
Action: CA380 - Date For Public Notice On Proposed Remedy
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940504
Action: CA270 - CMS Workplan Modification Requested By Agency
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: TGA GROUNDWATER
Actual Date: 19980105
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: 19980930
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950305
Action: CA340 - CMS Report Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 20020208
Action: CA500 - CMI Workplan Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing

BOEING OF PORTLAND (Continued) **1000257073**

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940708
Action: CA300 - CMS Workplan Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: 19940930
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950310
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950310
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940311
Action: CA110 - RFI Workplan Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940511
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing

BOEING OF PORTLAND (Continued) **1000257073**

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950512
Action: CA190 - RFI Report Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: TGA GROUNDWATER
Actual Date: 19971112
Action: CA410 - Date To Submit Remedy Design
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19910813
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940813
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940813
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY

BOEING OF PORTLAND (Continued) **1000257073**

Actual Date: 19950213
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950213
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950113
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950113
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940713
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940713
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940913
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940913
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19941014
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19941014
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19881215
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19941215
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing

BOEING OF PORTLAND (Continued) **1000257073**

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19941215
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950717
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19880317
Action: CA200 - RFI Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19941117
Action: CA195 - FI Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19941117
Action: CA345 - CMS Progress Reports Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481

BOEING OF PORTLAND (Continued) **1000257073**

EPA Region: 10
Area Name: FACILITY
Actual Date: 19940118
Action: CA100 - RFI Imposition
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: TGA GROUNDWATER
Actual Date: 19940118
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940118
Action: CA250 - CMS Imposition
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940718
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940718
Action: CA330 - CMS Implementation Begun
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950718
Action: CA340 - CMS Report Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19940419
Action: CA140 - RFI Workplan Notice Of Deficiency Issued
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19930120
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950620
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19860721
Action: CA100 - RFI Imposition
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19860721
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481

BOEING OF PORTLAND (Continued) **1000257073**

EPA Region: 10
Area Name: FACILITY
Actual Date: 19860721
Action: CA600 - Stabilization Measures Implemented
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950822
Action: CA200 - RFI Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19861222
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950922
Action: CA225 - Stabilization Measures Evaluation
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950922
Action: CA225 - Stabilization Measures Evaluation
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19970724
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: TGA GROUNDWATER
Actual Date: 19970724
Action: CA400 - Date For Remedy Selection (CM Imposed)
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950825
Action: CA225 - Stabilization Measures Evaluation
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19991025
Action: CA770GW
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: TGA GROUNDWATER
Actual Date: 19991025
Action: CA550 - Certification Of Remedy Completion Or Construction Completion
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: 19980630
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19991026
Action: CA450 - Corrective Measures Design Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: 19991030
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: TGA GROUNDWATER
Actual Date: 19991026
Action: CA450 - Corrective Measures Design Approved

BOEING OF PORTLAND (Continued) **1000257073**

NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: 19991030
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: TGA GROUNDWATER
Actual Date: 20060127
Action: CA772EP
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 20060127
Action: CA772EP
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950627
Action: CA260 - CMS Workplan Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 20081027
Action: CA210T - CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action referred to another non-RCRA Federal Authority
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19950829
Action: CA300 - CMS Workplan Approved
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481

BOEING OF PORTLAND (Continued) **1000257073**

EPA Region: 10
Area Name: FACILITY
Actual Date: 19940330
Action: CA260 - CMS Workplan Received
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 20020930
Action: CA550 - Certification Of Remedy Completion Or Construction Completion
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: 19870331
Action: CA050 - RFA Completed
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: ORD054964481
EPA Region: 10
Area Name: FACILITY
Actual Date: Not reported
Action: CA211
NAICS Code(s): 336413
Other Aircraft Parts and Auxiliary Equipment Manufacturing
Original schedule date: 20081029
Schedule end date: Not reported

RCRA-LQG:
Date form received by agency: 12/31/2014
Facility name: BOEING OF PORTLAND
Facility address: 19000 NE SANDY BLVD
PORTLAND, OR 97230
EPA ID: ORD054964481
Mailing address: PO BOX 20487, MS 5P2-200
PORTLAND, OR 97294-0487
Contact: MIKE BERNARD
Contact address: PO BOX 20487 MS 5P2-200
PORTLAND, OR 97294-0487
Contact country: US
Contact telephone: (971)221-1905
Contact email: MICHAEL.P.BERNARD@BOEING.COM
EPA Region: 10
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any

BOEING OF PORTLAND (Continued) **1000257073**

calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	THE BOEING COMPANY
Owner/operator address:	PO BOX 20487 MS 5P2-200 PORTLAND, OR 97294
Owner/operator country:	US
Owner/operator telephone:	(503)221-1905
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/31/2014
Owner/Op end date:	Not reported

Owner/operator name:	THE BOEING COMPANY
Owner/operator address:	PO BOX 20487 PORTLAND, OR 97294
Owner/operator country:	US
Owner/operator telephone:	(503)221-1905
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/31/2014
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Universal Waste Summary:

Waste type:	Batteries
Accumulated waste on-site:	Yes
Generated waste on-site:	No

Waste type:	Lamps

BOEING OF PORTLAND (Continued) **1000257073**

Accumulated waste on-site: Yes
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: No

. Waste code: NA
. Waste name: NA

Historical Generators:
Date form received by agency: 12/31/2013
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/31/2013
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

BOEING OF PORTLAND (Continued) **1000257073**

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: 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 name: 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: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

BOEING OF PORTLAND (Continued) **1000257073**

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F019
. Waste name: WASTEWATER TREATMENT SLUDGES FROM THE CHEMICAL CONVERSION COATING OF ALUMINUM, EXCEPT FROM ZIRCONIUM PHOSPHATING IN ALUMINUM CAN WASHING WHEN SUCH PHOSPHATING IS AN EXCLUSIVE CONVERSION COATING PROCESS.

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/30/2013
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE

BOEING OF PORTLAND (Continued) **1000257073**

SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: 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 name: 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: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 12/31/2012
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: NA
. Waste name: NA

BOEING OF PORTLAND (Continued) **1000257073**

Date form received by agency: 12/31/2011
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/30/2011
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE

BOEING OF PORTLAND (Continued) **1000257073**

USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: 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 name: 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: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 12/31/2010
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/31/2009
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: NA
. Waste name: NA

Date form received by agency: 12/30/2009

BOEING OF PORTLAND (Continued) **1000257073**

Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

BOEING OF PORTLAND (Continued) **1000257073**

. Waste code: F003
. Waste name: 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 name: 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: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 12/31/2008
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 12/31/2007
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 12/31/2007
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 12/31/2006
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 12/31/2005
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

BOEING OF PORTLAND (Continued) **1000257073**

Date form received by agency: 12/31/2005
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 12/31/2004
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/26/2004
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 01/01/2004
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 12/31/2003
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 02/28/2003
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

BOEING OF PORTLAND (Continued) **1000257073**

. Waste code: D018
. Waste name: BENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: 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: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Date form received by agency: 02/28/2002
Site name: BOEING OF PORTLAND

BOEING OF PORTLAND (Continued) **1000257073**

Classification: Large Quantity Generator

Date form received by agency: 03/16/2001
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/15/2000
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/01/2000
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/22/1999
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/01/1998
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 02/27/1998
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 02/28/1997
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/01/1996
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 02/26/1996
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 02/16/1995
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 05/10/1994
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/01/1994
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 02/24/1994
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 02/23/1993
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

BOEING OF PORTLAND (Continued) **1000257073**

Date form received by agency: 03/01/1992
Site name: BOEING OF PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 03/26/1990
Site name: THE BOEING COMPANY BOEING PORTLAND
Classification: Large Quantity Generator

Date form received by agency: 07/31/1985
Site name: BOEING OF PORTLAND
Classification: Not a generator, verified

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: 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: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F011
. Waste name: SPENT CYANIDE SOLUTIONS FROM SLAT BATH POT CLEANING FROM METAL HEAT TREATING OPERATIONS.

BOEING OF PORTLAND (Continued) **1000257073**

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs):	8862
Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs):	338284
Waste code:	D003
Waste name:	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs):	179559
Waste code:	D005
Waste name:	BARIUM
Amount (Lbs):	80914
Waste code:	D006
Waste name:	CADMIUM
Amount (Lbs):	472727
Waste code:	D007
Waste name:	CHROMIUM
Amount (Lbs):	675373
Waste code:	D008
Waste name:	LEAD
Amount (Lbs):	181976
Waste code:	D009
Waste name:	MERCURY
Amount (Lbs):	63
Waste code:	D018
Waste name:	BENZENE
Amount (Lbs):	46798
Waste code:	D035

BOEING OF PORTLAND (Continued) **1000257073**

Waste name: METHYL ETHYL KETONE
Amount (Lbs): 52722

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 74959

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 81396

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED 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.
Amount (Lbs): 110774

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED 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 NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 110774

Waste code: F006
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

BOEING OF PORTLAND (Continued) **1000257073**

Amount (Lbs): 151870

Waste code: F007
Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS
Amount (Lbs): 15063

Waste code: F009
Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS WHERE CYANIDES ARE USED IN THE PROCESS.
Amount (Lbs): 13094319

Corrective Action Summary:

Event date: 07/21/1986
Event: RFA Determination Of Need For An RFI, RFI is Necessary;

Event date: 07/21/1986
Event: Stabilization Measures Implemented

Event date: 07/21/1986
Event: RFI Imposition

Event date: 12/22/1986
Event: RFI Workplan Approved

Event date: 03/31/1987
Event: RFA Completed

Event date: 03/17/1988
Event: RFI Approved

Event date: 12/15/1988
Event: Stabilization Construction Completed

Event date: 08/13/1991
Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.

Event date: 01/20/1993
Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event date: 10/01/1993
Event: RFI Supplemental Implementation Begun

Event date: 01/18/1994
Event: CMS Imposition

Event date: 01/18/1994
Event: RFI Imposition

Event date: 01/18/1994
Event: Date For Remedy Selection (CM Imposed)

Event date: 03/11/1994
Event: RFI Workplan Received

BOEING OF PORTLAND (Continued) **1000257073**

Event date:	03/30/1994
Event:	CMS Workplan Received
Event date:	04/19/1994
Event:	RFI Workplan Notice Of Deficiency Issued
Event date:	05/04/1994
Event:	CMS Workplan Modification Requested By Agency
Event date:	05/11/1994
Event:	Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.
Event date:	07/08/1994
Event:	CMS Workplan Approved
Event date:	07/13/1994
Event:	FI Progress Reports Received
Event date:	07/13/1994
Event:	CMS Progress Reports Received
Event date:	07/18/1994
Event:	RFI Workplan Approved
Event date:	07/18/1994
Event:	CMS Implementation Begun
Event date:	08/13/1994
Event:	CMS Progress Reports Received
Event date:	08/13/1994
Event:	FI Progress Reports Received
Event date:	09/13/1994
Event:	CMS Progress Reports Received
Event date:	09/13/1994
Event:	FI Progress Reports Received
Event date:	10/14/1994
Event:	CMS Progress Reports Received
Event date:	10/14/1994
Event:	FI Progress Reports Received
Event date:	11/17/1994
Event:	CMS Progress Reports Received
Event date:	11/17/1994
Event:	FI Progress Reports Received

BOEING OF PORTLAND (Continued) **1000257073**

Event date:	12/15/1994
Event:	CMS Progress Reports Received
Event date:	12/15/1994
Event:	FI Progress Reports Received
Event date:	01/13/1995
Event:	FI Progress Reports Received
Event date:	01/13/1995
Event:	CMS Progress Reports Received
Event date:	02/13/1995
Event:	FI Progress Reports Received
Event date:	02/13/1995
Event:	CMS Progress Reports Received
Event date:	03/05/1995
Event:	CMS Report Received
Event date:	03/10/1995
Event:	CMS Progress Reports Received
Event date:	03/10/1995
Event:	FI Progress Reports Received
Event date:	05/12/1995
Event:	RFI Report Received
Event date:	06/20/1995
Event:	Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.
Event date:	06/27/1995
Event:	CMS Workplan Received
Event date:	07/17/1995
Event:	Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.
Event date:	07/18/1995
Event:	CMS Report Received
Event date:	08/01/1995
Event:	CMS Approved
Event date:	08/22/1995
Event:	RFI Approved
Event date:	08/25/1995
Event:	Stabilization Measures Evaluation

BOEING OF PORTLAND (Continued) **1000257073**

Event date:	08/29/1995
Event:	CMS Workplan Approved
Event date:	09/22/1995
Event:	Stabilization Measures Evaluation
Event date:	09/22/1995
Event:	Stabilization Measures Evaluation
Event date:	12/03/1996
Event:	CMS Approved
Event date:	03/03/1997
Event:	Date For Public Notice On Proposed Remedy
Event date:	07/24/1997
Event:	Date For Remedy Selection (CM Imposed)
Event date:	11/12/1997
Event:	Date To Submit Remedy Design
Event date:	01/05/1998
Event:	CMI Workplan Approved
Event date:	03/01/1999
Event:	Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
Event date:	03/01/1999
Event:	Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.
Event date:	10/25/1999
Event:	Certification Of Remedy Completion Or Construction Completion
Event date:	10/25/1999
Event:	CA770GW
Event date:	10/26/1999
Event:	Corrective Measures Design Approved
Event date:	02/08/2002
Event:	CMI Workplan Approved

BOEING OF PORTLAND (Continued) **1000257073**

Event date: 05/02/2002
Event: CMI Workplan Approved

Event date: 09/30/2002
Event: Certification Of Remedy Completion Or Construction Completion

Event date: 01/27/2006
Event: CA772EP

Event date: 01/27/2006
Event: CA772EP

Event date: 10/27/2008
Event: CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action referred to another non-RCRA Federal Authority.

Event date: Not reported
Event: CA211

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 12/10/2012
Date achieved compliance: 02/21/2013
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 01/22/2013
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 12/10/2012
Date achieved compliance: 12/10/2012
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 01/22/2013
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 11/05/2008
Date achieved compliance: 11/24/2008
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 02/24/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 07/05/2007
Date achieved compliance: 07/06/2007
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 08/03/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 07/05/2007
Date achieved compliance: 07/19/2007
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 08/03/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 07/05/2007
Date achieved compliance: 07/06/2007
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 02/24/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 07/05/2007
Date achieved compliance: 07/06/2007
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 08/03/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

BOEING OF PORTLAND (Continued) **1000257073**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 10/29/2002
Date achieved compliance: 01/08/2003
Violation lead agency: State
Enforcement action: NOTICE OF NONCOMPLIANCE
Enforcement action date: 12/15/2002
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 05/17/1988
Date achieved compliance: 09/09/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/27/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 06/25/1986
Date achieved compliance: 10/31/1987
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 06/25/1986
Date achieved compliance: 12/31/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/12/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 05/27/1986
Date achieved compliance: 06/17/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/11/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 06/25/1985
Date achieved compliance: 08/01/1985
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/25/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 06/25/1985
Date achieved compliance: 08/01/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/25/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 03/28/1985
Date achieved compliance: 05/05/1985
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 06/28/1984
Date achieved compliance: 07/11/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/06/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/31/2014
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/10/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 02/21/2013
Evaluation lead agency: State

Evaluation date: 12/10/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 12/10/2012
Evaluation lead agency: State

Evaluation date: 06/13/2012
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/17/2009
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/18/2009
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/05/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 07/06/2007

BOEING OF PORTLAND (Continued) **1000257073**

Evaluation lead agency: State

Evaluation date: 11/05/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 11/24/2008
Evaluation lead agency: State

Evaluation date: 07/05/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 07/19/2007
Evaluation lead agency: State

Evaluation date: 07/05/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 07/06/2007
Evaluation lead agency: State

Evaluation date: 07/05/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 07/06/2007
Evaluation lead agency: State

Evaluation date: 09/28/2006
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/09/2006
Evaluation: COMPLIANCE ASSISTANCE VISIT
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/04/2004
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/02/2004
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/01/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/30/2002

BOEING OF PORTLAND (Continued) **1000257073**

Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/29/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 10/29/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 01/08/2003
Evaluation lead agency: State

Evaluation date: 09/26/2001
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/15/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 11/17/1998
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/29/1998
Evaluation: CORRECTIVE ACTION COMPLIANCE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 11/20/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/20/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/19/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Evaluation lead agency: State

Evaluation date: 05/14/1991
Evaluation: OPERATION AND MAINTENANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 05/14/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 01/18/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/10/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 05/20/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/17/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 09/09/1988
Evaluation lead agency: State

Evaluation date: 04/26/1988
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 04/26/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 04/25/1988
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/26/1987

BOEING OF PORTLAND (Continued) **1000257073**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/31/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/26/1986
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 09/03/1986
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/25/1986
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 10/31/1987
Evaluation lead agency: State

Evaluation date: 06/25/1986
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 12/31/1986
Evaluation lead agency: State

Evaluation date: 06/17/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/17/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/17/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/27/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 06/17/1986

BOEING OF PORTLAND (Continued) **1000257073**

Evaluation lead agency: State

Evaluation date: 12/12/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/25/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 08/01/1985
Evaluation lead agency: State

Evaluation date: 06/25/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 08/01/1985
Evaluation lead agency: EPA

Evaluation date: 03/28/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 05/05/1985
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 03/08/1985
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 06/28/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 07/11/1984
Evaluation lead agency: State

US ENG CONTROLS:

EPA ID: ORD054964481
Site ID: Not reported
Name: BOEING OF PORTLAND
Address: 19000 NE SANDY BLVD
PORTLAND, OR 97230
EPA Region: 10
County: MULTNOMAH
Event Code: CA770GW
Actual Date: 10/25/1999
Contact Name: MIKE BERNARD
Contact Phone and Ext: (971)221-1905
Latitude: 46
Longitude: -122

Action ID: Not reported
Action Name: Not reported
Action Completion date: 01/01/1900
Operable Unit: Not reported
Contaminated Media : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Engineering Control: Not reported
Contact Name: MIKE BERNARD
Contact Phone and Ext: (971)221-1905
Latitude: 46
Longitude: -122

US INST CONTROL:
EPA ID: ORD054964481
Site ID: Not reported
Name: BOEING OF PORTLAND
Action Name: Not reported
Address: 19000 NE SANDY BLVD
PORTLAND, OR 97230
EPA Region: 10
County: MULTNOMAH
Event Code: CA772EP
Inst. Control: Not reported
Actual Date: 01/27/2006
Complet. Date: 01/01/1900
Operable Unit: Not reported
Contaminated Media : Not reported
Contact Name : MIKE BERNARD
Contact Phone and Ext : (971)221-1905
Latitude : 46
Longitude : -122

US FIN ASSUR:
EPA ID: ORD054964481
Provider: BOEING COMPANY
EPA region: 10
County: MULTNOMAH
Mechanism type: FINANCIAL TEST
Mechanism ID: LETTER REQUEST DATED 3/31/2014.
Cost estimate: 11519000
Face value: 11519000
Effective date: 7/22/2014

2020 COR ACTION:
EPA ID: ORD054964481
Region: 10
Action: Remedy Constructed

US AIRS (AFS):
Envid: 1000257073
Region Code: 10
County Code: OR051
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
D and B Number: Not reported
Facility Site Name: BOEING COMPANY (THE)
Primary SIC Code: Not reported
NAICS Code: 336413
Default Air Classification Code: SMI
Facility Type of Ownership Code: POF

BOEING OF PORTLAND (Continued) **1000257073**

Air CMS Category Code: SMI
HPV Status: Not reported

US AIRS (AFS):
Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2007-01-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)

BOEING OF PORTLAND (Continued) **1000257073**

Activity Date: 2008-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2009-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2009-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2011-12-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633

BOEING OF PORTLAND (Continued) **1000257073**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2003-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2007-01-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2008-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2008-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2008-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2008-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2009-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2009-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2011-12-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

BOEING OF PORTLAND (Continued) **1000257073**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1998-08-27 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1998-08-31 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-08-19 00:00:00
Activity Status Date: 2015-10-01 10:27:10
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

BOEING OF PORTLAND (Continued) **1000257073**

Activity Date:	1998-07-23 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	10
Programmatic ID:	AIR OR0000004105102204
Facility Registry ID:	110000487633
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1999-09-21 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	10
Programmatic ID:	AIR OR0000004105102204
Facility Registry ID:	110000487633
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2001-09-05 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	10
Programmatic ID:	AIR OR0000004105102204
Facility Registry ID:	110000487633
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2003-09-03 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	10
Programmatic ID:	AIR OR0000004105102204
Facility Registry ID:	110000487633
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2007-01-24 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	10
Programmatic ID:	AIR OR0000004105102204
Facility Registry ID:	110000487633

BOEING OF PORTLAND (Continued) **1000257073**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-12-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-09-12 00:00:00
Activity Status Date: 2002-09-12 00:00:00
Activity Group: Enforcement Action

BOEING OF PORTLAND (Continued) **1000257073**

Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Title V Permits
Activity Date: 1997-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Envid: 1000257073
Region Code: 10
County Code: OR051
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
D and B Number: Not reported
Facility Site Name: BOEING COMPANY (THE)
Primary SIC Code: Not reported
NAICS Code: 332813
Default Air Classification Code: SMI
Facility Type of Ownership Code: POF
Air CMS Category Code: SMI
HPV Status: Not reported

US AIRS (AFS):
Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2007-01-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633

BOEING OF PORTLAND (Continued) **1000257073**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2008-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2009-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2009-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2011-12-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: MACT Standards (40 CFR Part 63)
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2003-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2007-01-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2008-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

BOEING OF PORTLAND (Continued) **1000257073**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2008-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2008-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2008-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2009-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards

BOEING OF PORTLAND (Continued) **1000257073**

Activity Date: 2009-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2011-12-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: New Source Performance Standards
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1998-08-27 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1998-08-31 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633

BOEING OF PORTLAND (Continued) **1000257073**

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-08-19 00:00:00
Activity Status Date: 2015-10-01 10:27:10
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-09-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-09-05 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-01-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-01-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-05-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

BOEING OF PORTLAND (Continued) **1000257073**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-01-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-03-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

BOEING OF PORTLAND (Continued) **1000257073**

Activity Date: 2011-12-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-09-12 00:00:00
Activity Status Date: 2002-09-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 10
Programmatic ID: AIR OR0000004105102204
Facility Registry ID: 110000487633
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Title V Permits
Activity Date: 1997-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

FINDS:

Registry ID: 110000487633

Environmental Interest/Information System
OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect 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.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the

BOEING OF PORTLAND (Continued) **1000257073**

Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

AIR SYNTHETIC MINOR

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

HAZARDOUS AND CRITERIA AIR POLLUTANT MAJOR

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This

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information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

OR MANIFEST:
Manifest Year: Manifest Year - 2014
EPA Id: ORD054964481
Inactive Status: Not reported
Organization Name: The Boeing Company
Contact Name: Mike Bernard
Contact Telephone Number: Not reported
Mailing Address: PO Box 20487, MS 5P2-200
Mailing City/State/Zip: Portland, OR

Manifest:
Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548200FLE
Ship Date : 03/04/2014
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 50924.258739999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6253.3976650000004

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548224FLE
Ship Date : 03/27/2014
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 50924.258739999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6662.7449049999996

Year : 2014
RCRA Id : ORD054964481

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Inactive : Not reported
Status: Large quantity generator
Manifest : 005548231FLE
Ship Date : 04/15/2014
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 50924.258739999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 12254.223040000001

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548322FLE
Ship Date : 08/18/2014
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 50924.258739999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6257.7512649999999

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548326FLE
Ship Date : 08/25/2014
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 50924.258739999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 7241.9233599999998

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 007807672FLE
Ship Date : 11/05/2014
TSD : WAD020257945
WS Num: 1

BOEING OF PORTLAND (Continued) **1000257073**

Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 50924.258739999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 12254.223040000001

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548170FLE
Ship Date : 02/12/2014
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 348.74149999999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 52.152500000000003

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548253FLE
Ship Date : 05/14/2014
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 348.74149999999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 56.6875

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548259FLE
Ship Date : 05/21/2014
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 1: 348.74149999999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 52.606000000000002

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548323FLE
Ship Date : 08/20/2014
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 348.74149999999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 51.698999999999998

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548338FLE
Ship Date : 09/17/2014
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 348.74149999999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 43.082500000000003

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 007807688FLE
Ship Date : 12/03/2014
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 348.74149999999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 34.012500000000003

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Status: Large quantity generator
Manifest : 007807694FLE
Ship Date : 12/10/2014
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 348.74149999999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 58.5015

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548142FLE
Ship Date : 01/08/2014
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 79495.375499999995
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2454.7955000000002

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548145FLE
Ship Date : 01/15/2014
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 79495.375499999995
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1860.7104999999999

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548150FLE
Ship Date : 01/22/2014
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743

BOEING OF PORTLAND (Continued) **1000257073**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 79495.375499999995
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1268.893

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548161FLE
Ship Date : 01/29/2014
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 79495.375499999995
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1267.5325

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548165FLE
Ship Date : 02/05/2014
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 79495.375499999995
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2022.6099999999999

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548170FLE
Ship Date : 02/12/2014
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 79495.375499999995

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 1885.1994999999999

Year : 2014
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548186FLE
Ship Date : 02/19/2014
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 79495.375499999995
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1165.0415

Click this hyperlink while viewing on your computer to access
2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547994FLE
Ship Date : 04/16/2013
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34180.294999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 9040.4318000000003

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548006FLE
Ship Date : 05/03/2013
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34180.294999999998

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 5286.6309000000001

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548029FLE
Ship Date : 06/20/2013
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34180.294999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6967.5739999999996

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548074FLE
Ship Date : 09/23/2013
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34180.294999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5700.3589499999998

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548094FLE
Ship Date : 10/21/2013
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34180.294999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 7185.2993500000002

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator

BOEING OF PORTLAND (Continued) **1000257073**

Manifest : 005547927FLE
Ship Date : 01/29/2013
TSD : WAD020257945
WS Num: 2
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 48945.347999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 7383.5695500000002

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548096FLE
Ship Date : 10/23/2013
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 48945.347999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6858.6886500000001

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548071FLE
Ship Date : 09/11/2013
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 48945.347999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 8739.3984999999993

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548028FLE
Ship Date : 06/19/2013
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 48945.347999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5224.5467500000004

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548012FLE
Ship Date : 05/20/2013
TSD : WAD020257945
WS Num: 2
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 48945.347999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5009.8145000000004

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547948FLE
Ship Date : 03/18/2013
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 48945.347999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 9765.2155000000002

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548003FLE
Ship Date : 04/29/2013
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 48945.347999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5964.1145500000002

BOEING OF PORTLAND (Continued) **1000257073**

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547939FLE
Ship Date : 02/26/2013
TSD : WAD020257945
WS Num: 3
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: CADMIUM STRIP SOLUTION: CADMIUM AMMONIUM NITRATE SODIUM HYDROXIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 5519.1403499999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2524.2308849999999

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548092FLE
Ship Date : 10/17/2013
TSD : WAD020257945
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: CADMIUM STRIP SOLUTION: CADMIUM AMMONIUM NITRATE SODIUM HYDROXIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 5519.1403499999997
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2994.9230699999998

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548061FLE
Ship Date : 08/23/2013
TSD : WAD20257945
WS Num: 4
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 D006 F009
Waste Description: CYANIDE COPPER STRIPPING SOLUTION FROM ELECTROPLATING: SODIUM CYANIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 3644.9110150000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3644.9110150000001

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547917FLE
Ship Date : 01/09/2013

BOEING OF PORTLAND (Continued) **1000257073**

TSD : WAD991281767
WS Num: 5
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D007 D035
Waste Description: PAINT BOOTH DECON WATER WITH METHYL ETHYL KETONE CHROMIUM
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2311.7978800000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 229.09913

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548022FLE
Ship Date : 05/29/2013
TSD : WAD991281767
WS Num: 5
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D007 D035
Waste Description: PAINT BOOTH DECON WATER WITH METHYL ETHYL KETONE CHROMIUM
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2311.7978800000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1249.61925

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548067FLE
Ship Date : 09/04/2013
TSD : WAD991281767
WS Num: 5
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D007 D035
Waste Description: PAINT BOOTH DECON WATER WITH METHYL ETHYL KETONE CHROMIUM
Total Amt Of Waste Stream Generated in Reporting Yr 1: 2311.7978800000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 833.07950000000005

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548069FLE
Ship Date : 09/09/2013
TSD : ORD089452353
WS Num: 6
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132

BOEING OF PORTLAND (Continued) **1000257073**

EPA Waste Codes: D005 D006 D007 F002 F003 F005
Waste Description: DEBRIS CONTAMINATED WITH PAINTS SOLVENTS SEALANTS AND METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 32352.689999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3727.77

Year : 2013
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005548124FLE
Ship Date : 12/09/2013
TSD : ORD089452353
WS Num: 6
Transporter: MAD039322250
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D005 D006 D007 F002 F003 F005
Waste Description: DEBRIS CONTAMINATED WITH PAINTS SOLVENTS SEALANTS AND METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 32352.689999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3219.8499999999999

Click this hyperlink while viewing on your computer to access
2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151547FLE
Ship Date : 06/27/2012
TSD : WAD991281767
WS Num: 9
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061
EPA Waste Codes: D001 D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151545FLE
Ship Date : 06/20/2012
TSD : WAD991281767
WS Num: 9
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H061

BOEING OF PORTLAND (Continued) **1000257073**

EPA Waste Codes: D001 D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547870FLE
Ship Date : 10/10/2012
TSD : WAD991281767
WS Num: 10
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H010
EPA Waste Codes: D003
Waste Description: WASTE LITHIUM BATTERIES
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547908FLE
Ship Date : 12/19/2012
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007 D008
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151516FLE
Ship Date : 04/18/2012
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H112
EPA Waste Codes: D006 D007 D008
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012

BOEING OF PORTLAND (Continued) **1000257073**

RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151545FLE
Ship Date : 06/20/2012
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H112
EPA Waste Codes: D006 D007 D008
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151551FLE
Ship Date : 07/05/2012
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007 D008
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151570FLE
Ship Date : 03/14/2012
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007 D008
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151579FLE
Ship Date : 02/22/2012
TSD : WAD991281767

BOEING OF PORTLAND (Continued) **1000257073**

WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007 D008
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151603FLE
Ship Date : 01/25/2012
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007 D008
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547864FLE
Ship Date : 09/12/2012
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007 D008
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547886FLE
Ship Date : 11/07/2012
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007 D008

BOEING OF PORTLAND (Continued) **1000257073**

Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151531FLE
Ship Date : 05/23/2012
TSD : WAD991281767
WS Num: 12
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001 D005 D007 D008 D018 D039
Waste Description: AEROSOL CANS AND SPRAYER UNITS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151603FLE
Ship Date : 01/25/2012
TSD : WAD991281767
WS Num: 13
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D008
Waste Description: NICKEL STRIKE PLATING SOLUTION (B-0-WEST)
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547856FLE
Ship Date : 08/29/2012
TSD : WAD991281767
WS Num: 13
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D008
Waste Description: NICKEL STRIKE PLATING SOLUTION (B-0-WEST)
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481

BOEING OF PORTLAND (Continued) **1000257073**

Inactive : Not reported
Status: Large quantity generator
Manifest : 005547864FLE
Ship Date : 09/12/2012
TSD : WAD991281767
WS Num: 13
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D008
Waste Description: NICKEL STRIKE PLATING SOLUTION (B-0-WEST)
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151538FLE
Ship Date : 06/06/2012
TSD : WAD991281767
WS Num: 13
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D008
Waste Description: NICKEL STRIKE PLATING SOLUTION (B-0-WEST)
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547882FLE
Ship Date : 10/31/2012
TSD : WAD991281767
WS Num: 14
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: BLAST MEDIA CONTAMINATED WITH HEAVY METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151570FLE
Ship Date : 03/14/2012
TSD : WAD991281767
WS Num: 14

BOEING OF PORTLAND (Continued) **1000257073**

Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: BLAST MEDIA CONTAMINATED WITH HEAVY METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2012
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 005547852FLE
Ship Date : 08/15/2012
TSD : WAD991281767
WS Num: 14
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: BLAST MEDIA CONTAMINATED WITH HEAVY METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

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2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151621FLE
Ship Date : 12/19/2011
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: "ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID"
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34550.351000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6096.8540000000003

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151782FLE
Ship Date : 01/12/2011
TSD : WAD020257945
WS Num: 1

BOEING OF PORTLAND (Continued) **1000257073**

Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: "ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID"
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34550.351000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6532.2139999999999

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151774FLE
Ship Date : 01/24/2011
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: "ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID"
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34550.351000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5299.6009999999997

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151729FLE
Ship Date : 05/09/2011
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: "ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID"
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34550.351000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6532.2139999999999

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151675FLE
Ship Date : 08/08/2011
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: "ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID"

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 1: 34550.351000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 4533.1859999999997

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151697FLE
Ship Date : 06/24/2011
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: "ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID"
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34550.351000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5556.7354999999998

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794976FLE
Ship Date : 03/28/2011
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D007
Waste Description: ALODINE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 7105.4380000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 7105.4380000000001

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151712FLE
Ship Date : 05/27/2011
TSD : WAD020257945
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 47207.989500000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 4771.2735000000002

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Status: Large quantity generator
Manifest : 002151678FLE
Ship Date : 08/17/2011
TSD : WAD020257945
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 47207.989500000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 7157.1369999999997

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151773FLE
Ship Date : 01/25/2011
TSD : WAD020257945
WS Num: 3
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 47207.989500000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3256.5835000000002

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151623FLE
Ship Date : 12/12/2011
TSD : WAD020257945
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 47207.989500000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5204.8194999999996

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151674FLE
Ship Date : 08/09/2011
TSD : WAD020257945
WS Num: 3
Transporter: WAR000001743

BOEING OF PORTLAND (Continued) **1000257073**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 47207.989500000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6194.8100000000004

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151676FLE
Ship Date : 08/08/2011
TSD : WAD020257945
WS Num: 3
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 47207.989500000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 7670.0455000000002

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151647FLE
Ship Date : 10/14/2011
TSD : WAD020257945
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 47207.989500000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6989.7955000000002

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151739FLE
Ship Date : 04/26/2011
TSD : WAD020257945
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 47207.989500000003

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 5963.9785000000002

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151662FLE
Ship Date : 09/20/2011
TSD : WAD020257945
WS Num: 4
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: CADMIUM STRIP SOLUTION: CADMIUM AMMONIUM NITRATE SODIUM HYDROXIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 18785.784
Total Amt Of Waste Stream Generated in Reporting Yr 2: 9372.0310000000009

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151756FLE
Ship Date : 02/23/2011
TSD : WAD020257945
WS Num: 4
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: CADMIUM STRIP SOLUTION: CADMIUM AMMONIUM NITRATE SODIUM HYDROXIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 18785.784
Total Amt Of Waste Stream Generated in Reporting Yr 2: 9413.7530000000006

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151758FLE
Ship Date : 02/23/2011
TSD : WAD991281767
WS Num: 5
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007 D008
Waste Description: HARD CHROME PLATE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 499.75700000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 249.8785

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator

BOEING OF PORTLAND (Continued) **1000257073**

Manifest : 002151769FLE
Ship Date : 01/26/2011
TSD : WAD991281767
WS Num: 5
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007 D008
Waste Description: HARD CHROME PLATE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 499.75700000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 249.8785

Year : 2011
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794981FLE
Ship Date : 03/23/2011
TSD : WAD020257945
WS Num: 6
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F009
Waste Description: CYANIDE COPPER STRIPPING SOLUTION FROM ELECTROPLATING: SODIUM CYANIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 8870.4599999999991
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3644.7795000000001

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2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151958FLE
Ship Date : 06/07/2010
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 19160.8285
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6532.1233000000002

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator

BOEING OF PORTLAND (Continued) **1000257073**

Manifest : 002151954FLE
Ship Date : 06/02/2010
TSD : WAD020257945
WS Num: 1
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 19160.8285
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6532.1233000000002

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151935FLE
Ship Date : 05/03/2010
TSD : WAD020257945
WS Num: 1
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALUMINUM DEOXIDIZER: NITRIC ACID, CHROMIC ACID
Total Amt Of Waste Stream Generated in Reporting Yr 1: 19160.8285
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6096.6272499999995

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794963FLE
Ship Date : 01/11/2010
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 51183.824000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 8035.6118500000002

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151804FLE
Ship Date : 12/13/2010
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 51183.824000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 4242.45622

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151807FLE
Ship Date : 12/06/2010
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 51183.824000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 4838.8450000000003

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151813FLE
Ship Date : 11/18/2010
TSD : WAD020257945
WS Num: 2
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 51183.824000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 17097.086050000002

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151884FLE
Ship Date : 01/26/2010
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 51183.824000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6083.3850499999999

BOEING OF PORTLAND (Continued) **1000257073**

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151914FLE
Ship Date : 03/22/2010
TSD : WAD020257945
WS Num: 2
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 51183.824000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 10886.448899999999

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151862FLE
Ship Date : 08/26/2010
TSD : WAD020257945
WS Num: 3
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F007
Waste Description: "SPENT COPPER ELECTROPLATING SOLUTION: CUPROUS CYANIDE, SODIUM HYDROXIDE"
Total Amt Of Waste Stream Generated in Reporting Yr 1: 5817.9515000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 4859.8873999999996

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151986FLE
Ship Date : 08/11/2010
TSD : WAD991281767
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F007
Waste Description: "SPENT COPPER ELECTROPLATING SOLUTION: CUPROUS CYANIDE, SODIUM HYDROXIDE"
Total Amt Of Waste Stream Generated in Reporting Yr 1: 5817.9515000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 958.041425

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151916FLE
Ship Date : 03/31/2010

BOEING OF PORTLAND (Continued) **1000257073**

TSD : WAD020257945
WS Num: 4
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: CADMIUM STRIP SOLUTION: CADMIUM AMMONIUM NITRATE SODIUM HYDROXIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 17807.131000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2799.1471200000001

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151941FLE
Ship Date : 05/13/2010
TSD : WAD020257945
WS Num: 4
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: CADMIUM STRIP SOLUTION: CADMIUM AMMONIUM NITRATE SODIUM HYDROXIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 17807.131000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 8164.1791000000003

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151901FLE
Ship Date : 03/10/2010
TSD : WAD020257945
WS Num: 4
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: CADMIUM STRIP SOLUTION: CADMIUM AMMONIUM NITRATE SODIUM HYDROXIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 17807.131000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6843.7685000000001

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151930FLE
Ship Date : 04/28/2010
TSD : WAD991281767
WS Num: 5
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132

BOEING OF PORTLAND (Continued) **1000257073**

EPA Waste Codes: D007 D008
Waste Description: HARD CHROME PLATE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 5702.7624999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 249.92384999999999

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151920FLE
Ship Date : 04/08/2010
TSD : WAD020257945
WS Num: 5
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007 D008
Waste Description: HARD CHROME PLATE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 5702.7624999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 5452.884

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151838FLE
Ship Date : 10/11/2010
TSD : WAD020257945
WS Num: 6
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F009
Waste Description: CYANIDE COPPER STRIPPING SOLUTION FROM ELECTROPLATING: SODIUM CYANIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 14941.011
Total Amt Of Waste Stream Generated in Reporting Yr 2: 4420.0558899999996

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151845FLE
Ship Date : 09/22/2010
TSD : WAD991281767
WS Num: 6
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F009
Waste Description: CYANIDE COPPER STRIPPING SOLUTION FROM ELECTROPLATING: SODIUM CYANIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 14941.011
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1676.5713599999999

Year : 2010

BOEING OF PORTLAND (Continued) **1000257073**

RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151905FLE
Ship Date : 03/15/2010
TSD : WAD020257945
WS Num: 6
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F009
Waste Description: CYANIDE COPPER STRIPPING SOLUTION FROM ELECTROPLATING: SODIUM CYANIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 14941.011
Total Amt Of Waste Stream Generated in Reporting Yr 2: 4646.5156500000003

Year : 2010
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 002151964FLE
Ship Date : 06/29/2010
TSD : WAD020257945
WS Num: 6
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F009
Waste Description: CYANIDE COPPER STRIPPING SOLUTION FROM ELECTROPLATING: SODIUM CYANIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 14941.011
Total Amt Of Waste Stream Generated in Reporting Yr 2: 4197.9633350000004

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2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794921FLE
Ship Date : 09/30/2009
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: RAGS AND DEBRIS CONTAMINATED WITH ALODINE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1283.8585
Total Amt Of Waste Stream Generated in Reporting Yr 2: 84.350999999999999

Year : 2009

BOEING OF PORTLAND (Continued) **1000257073**

RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794779FLE
Ship Date : 03/18/2009
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: RAGS AND DEBRIS CONTAMINATED WITH ALODINE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1283.8585
Total Amt Of Waste Stream Generated in Reporting Yr 2: 119.724

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794943FLE
Ship Date : 11/25/2009
TSD : WAD991281767
WS Num: 13
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 17844.771499999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 811.31150000000002

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794752FLE
Ship Date : 01/21/2009
TSD : WAD991281767
WS Num: 13
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 17844.771499999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1622.623

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794921FLE
Ship Date : 09/30/2009
TSD : WAD991281767

BOEING OF PORTLAND (Continued) **1000257073**

WS Num: 13
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 17844.771499999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 811.31150000000002

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794910FLE
Ship Date : 08/28/2009
TSD : WAD991281767
WS Num: 10
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D005 D006 D007 F002 F003 F005
Waste Description: DEBRIS CONTAMINATED WITH PAINTS SOLVENTS SEALANTS AND METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 51549.345000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3228.9200000000001

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794766FLE
Ship Date : 02/18/2009
TSD : WAD991281767
WS Num: 15
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D006
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 829.45150000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 54.8735

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794936FLE
Ship Date : 11/11/2009
TSD : WAD991281767
WS Num: 15
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H112
EPA Waste Codes: D006

BOEING OF PORTLAND (Continued) **1000257073**

Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 829.45150000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 43.9895

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794781FLE
Ship Date : 04/01/2009
TSD : WAD991281767
WS Num: 16
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002
Waste Description: NICKEL STRIKE PLATING SOLUTION: HYDROCHLORIC ACID AND NICKEL
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1249.846
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.15649999999999

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794870FLE
Ship Date : 06/24/2009
TSD : WAD991281767
WS Num: 17
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: BLAST MEDIA CONTAMINATED WITH HEAVY METALS: CADMIUM CADMIUM AND CHROME
Total Amt Of Waste Stream Generated in Reporting Yr 1: 316.54300000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 89.339500000000001

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794754FLE
Ship Date : 02/04/2009
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F007
Waste Description: SPENT CADMIUM-CYANIDE ELECTROPLATING SOLUTION/SLUDGE:
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1770.4639999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 353.73000000000002

Year : 2009
RCRA Id : ORD054964481

BOEING OF PORTLAND (Continued) **1000257073**

Inactive : Not reported
Status: Large quantity generator
Manifest : 000794943FLE
Ship Date : 11/25/2009
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT SOLVENT: TETRACHLOROETHYLENE; OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: 4250.2020000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 158.72499999999999

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794902FLE
Ship Date : 08/19/2009
TSD : WAD991281767
WS Num: 20
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS: ALUMINUM IRON
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1308.8009999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 88.885999999999996

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794754FLE
Ship Date : 02/04/2009
TSD : WAD991281767
WS Num: 20
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H010
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS: ALUMINUM IRON
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1308.8009999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 85.711500000000001

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794791FLE
Ship Date : 04/15/2009
TSD : WAD991281767
WS Num: 24

BOEING OF PORTLAND (Continued) **1000257073**

Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D006 D007 F001 F002
Waste Description: WATER WITH TRACE SPENT SOLVENTS AND METALS:
Total Amt Of Waste Stream Generated in Reporting Yr 1: 5646.0749999999998
Total Amt Of Waste Stream Generated in Reporting Yr 2: 794.07849999999996

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794773FLE
Ship Date : 02/27/2009
TSD : WAD991281767
WS Num: 27
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTE WATER TREATMENT EQUIPMENT CONTAMINATED WITH F006 WWT SLUDGE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 22178.4175
Total Amt Of Waste Stream Generated in Reporting Yr 2: 11763.790000000001

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794896FLE
Ship Date : 07/22/2009
TSD : WAD991281767
WS Num: 36
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002
Waste Description: Sterling Precleaner
Total Amt Of Waste Stream Generated in Reporting Yr 1: 22.675000000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 20.861000000000001

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794887FLE
Ship Date : 07/08/2009
TSD : WAD991281767
WS Num: 21
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 1: 57858.890500000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 673.44749999999999

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794813FLE
Ship Date : 04/29/2009
TSD : WAD991281767
WS Num: 21
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 57858.890500000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2170.451

Year : 2009
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794902FLE
Ship Date : 08/19/2009
TSD : WAD991281767
WS Num: 21
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 57858.890500000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 977.29250000000002

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2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794724FLE
Ship Date : 12/10/2008
TSD : WAD991281767
WS Num: 13
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: RAGS AND DEBRIS CONTAMINATED WITH ALODINE SOLUTION

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 1: 925.59349999999995
Total Amt Of Waste Stream Generated in Reporting Yr 2: 84.804500000000004

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794590FLE
Ship Date : 07/09/2008
TSD : WAD991281767
WS Num: 15
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 14424.4745
Total Amt Of Waste Stream Generated in Reporting Yr 2: 541.02549999999997

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105920FLE
Ship Date : 02/12/2008
TSD : WAD991281767
WS Num: 15
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 14424.4745
Total Amt Of Waste Stream Generated in Reporting Yr 2: 811.31150000000002

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105977FLE
Ship Date : 04/01/2008
TSD : IDD073114654
WS Num: 46
Transporter: CAR000186346
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT ACTIVATED CARBON WITH TETRACHLOROETHYLENE AND OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: 16417.607
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1520.5854999999999

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Status: Large quantity generator
Manifest : 000105924FLE
Ship Date : 02/11/2008
TSD : IDD073114654
WS Num: 46
Transporter: CAR000186346
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT ACTIVATED CARBON WITH TETRACHLOROETHYLENE AND OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: 16417.607
Total Amt Of Waste Stream Generated in Reporting Yr 2: 849.40549999999996

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794593FLE
Ship Date : 07/23/2008
TSD : WAD991281767
WS Num: 47
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D006 D007 F001 F002
Waste Description: WATER WITH TRACE SPENT SOLVENTS AND METALS:
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1828.9655
Total Amt Of Waste Stream Generated in Reporting Yr 2: 218.58699999999999

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794719FLE
Ship Date : 11/21/2008
TSD : WAD991281767
WS Num: 12
Transporter: CAT000624247
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D005 D006 D007 F002 F003 F005
Waste Description: DEBRIS CONTAMINATED WITH PAINTS SOLVENTS SEALANTS AND METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 44615.330000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2761.8150000000001

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105955FLE
Ship Date : 02/28/2008
TSD : WAD991281767
WS Num: 12
Transporter: CAT000624247

BOEING OF PORTLAND (Continued) **1000257073**

Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D005 D006 D007 F002 F003 F005
Waste Description: DEBRIS CONTAMINATED WITH PAINTS SOLVENTS SEALANTS AND METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 44615.330000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1188.1700000000001

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794677FLE
Ship Date : 09/17/2008
TSD : WAD991281767
WS Num: 41
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 D003 F007
Waste Description: SPENT CADMIUM-CYANIDE ELECTROPLATING SOLUTION/SLUDGE:
Total Amt Of Waste Stream Generated in Reporting Yr 1: 4506.4295000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 353.73000000000002

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794635FLE
Ship Date : 08/20/2008
TSD : WAD991281767
WS Num: 43
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H010
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS: ALUMINUM IRON
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1097.47
Total Amt Of Waste Stream Generated in Reporting Yr 2: 64.397000000000006

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794720FLE
Ship Date : 11/26/2008
TSD : WAD991281767
WS Num: 44
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 46767.1875

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 2: 1844.3844999999999

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794635FLE
Ship Date : 08/20/2008
TSD : WAD991281767
WS Num: 44
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 46767.1875
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3603.0574999999999

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794677FLE
Ship Date : 09/17/2008
TSD : WAD991281767
WS Num: 15
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 14424.4745
Total Amt Of Waste Stream Generated in Reporting Yr 2: 811.31150000000002

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794577FLE
Ship Date : 06/25/2008
TSD : WAD991281767
WS Num: 23
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D001 D002 D003 U201
Waste Description: Lab Pack 000794577FLE page 2 line 6
Total Amt Of Waste Stream Generated in Reporting Yr 1: 116.54949999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 116.54949999999999

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator

BOEING OF PORTLAND (Continued) **1000257073**

Manifest : 000794693FLE
Ship Date : 10/15/2008
TSD : WAD991281767
WS Num: 46
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT ACTIVATED CARBON WITH TETRACHLOROETHYLENE AND OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: 16417.607
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1226.2639999999999

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794510FLE
Ship Date : 04/30/2008
TSD : WAD991281767
WS Num: 47
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D006 D007 F001 F002
Waste Description: WATER WITH TRACE SPENT SOLVENTS AND METALS:
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1828.9655
Total Amt Of Waste Stream Generated in Reporting Yr 2: 79.362499999999997

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105913FLE
Ship Date : 01/29/2008
TSD : WAD991281767
WS Num: 45
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D002 F007
Waste Description: SPENT TITANIUM-CADMIUM ELECTROPLATING SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 229.01750000000001
Total Amt Of Waste Stream Generated in Reporting Yr 2: 229.01750000000001

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794549FLE
Ship Date : 06/11/2008
TSD : WAD991281767
WS Num: 46
Transporter: WAR000001743
Ship Qty : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT ACTIVATED CARBON WITH TETRACHLOROETHYLENE AND OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: 16417.607
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1885.1994999999999

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105982FLE
Ship Date : 04/08/2008
TSD : WAD020257945
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 34806.578500000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 10079.0375

Year : 2008
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000794684FLE
Ship Date : 10/01/2008
TSD : WAD991281767
WS Num: 5
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D002 D007 D008
Waste Description: "HARD CHROME PLATE SOLUTION: CHROMIC ACID, LEAD"
Total Amt Of Waste Stream Generated in Reporting Yr 1: 249.8785
Total Amt Of Waste Stream Generated in Reporting Yr 2: 208.15649999999999

Click this hyperlink while viewing on your computer to access
2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105816FLE
Ship Date : 10/17/2007
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Rpt Unit : Not reported
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 18411.189999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 541.48000000000002

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105677FLE
Ship Date : 05/30/2007
TSD : WAD991281767
WS Num: 17
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT SOLVENT: TETRACHLOROETHYLENE; OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: 4106.8999999999996
Total Amt Of Waste Stream Generated in Reporting Yr 2: 291.60000000000002

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105730FLE
Ship Date : 07/25/2007
TSD : WAD991281767
WS Num: 11
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 18411.189999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 270.74000000000001

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105630FLE
Ship Date : 03/08/2007
TSD : WAD991281767
WS Num: 8
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D005 D006 D007 F002 F003 F005
Waste Description: DEBRIS CONTAMINATED WITH PAINTS SOLVENTS SEALANTS AND METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 65122.599999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 1369.5699999999999

BOEING OF PORTLAND (Continued) **1000257073**

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105874FLE
Ship Date : 12/26/2007
TSD : WAD991281767
WS Num: 16
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: BLAST MEDIA CONTAMINATED WITH HEAVY METALS: CADMIUM CADMIUM AND CHROME
Total Amt Of Waste Stream Generated in Reporting Yr 1: 813.13
Total Amt Of Waste Stream Generated in Reporting Yr 2: 140.13

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105767FLE
Ship Date : 08/22/2007
TSD : WAD991281767
WS Num: 18
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H010
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS: ALUMINUM IRON
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1179.0999999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 157.81999999999999

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105723FLE
Ship Date : 07/18/2007
TSD : WAD991281767
WS Num: 9
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: RAGS AND DEBRIS CONTAMINATED WITH ALODINE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1086.5899999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 62.130000000000003

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105836fle
Ship Date : 11/21/2007

BOEING OF PORTLAND (Continued) **1000257073**

TSD : WAD991281767
WS Num: 8
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D005 D006 D007 F002 F003 F005
Waste Description: DEBRIS CONTAMINATED WITH PAINTS SOLVENTS SEALANTS AND METALS
Total Amt Of Waste Stream Generated in Reporting Yr 1: 65122.599999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 3682.4200000000001

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105775FLE
Ship Date : 09/05/2007
TSD : WAD991281767
WS Num: 9
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: RAGS AND DEBRIS CONTAMINATED WITH ALODINE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1086.5899999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 68.030000000000001

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105730FLE
Ship Date : 07/25/2007
TSD : WAD991281767
WS Num: 9
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: RAGS AND DEBRIS CONTAMINATED WITH ALODINE SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1086.5899999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 54.420000000000002

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105631FLE
Ship Date : 03/21/2007
TSD : WAD991281767
WS Num: 23
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040

BOEING OF PORTLAND (Continued) **1000257073**

EPA Waste Codes: D006 D007 F001 F002
Waste Description: WATER WITH TRACE SPENT SOLVENTS AND METALS:
Total Amt Of Waste Stream Generated in Reporting Yr 1: 1033.98
Total Amt Of Waste Stream Generated in Reporting Yr 2: 397.72000000000003

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105738FLE
Ship Date : 08/02/2007
TSD : WAD991281767
WS Num: 3
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H135
EPA Waste Codes: D002 D006 D007 D008
Waste Description: ALKALINE CLEANER
Total Amt Of Waste Stream Generated in Reporting Yr 1: 49490
Total Amt Of Waste Stream Generated in Reporting Yr 2: 6826.9899999999998

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105593FLE
Ship Date : 01/10/2007
TSD : WAD991281767
WS Num: 16
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: BLAST MEDIA CONTAMINATED WITH HEAVY METALS: CADMIUM CADMIUM AND CHROME
Total Amt Of Waste Stream Generated in Reporting Yr 1: 813.13
Total Amt Of Waste Stream Generated in Reporting Yr 2: 87.069999999999993

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105628FLE
Ship Date : 03/07/2007
TSD : WAD991281767
WS Num: 16
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D007
Waste Description: BLAST MEDIA CONTAMINATED WITH HEAVY METALS: CADMIUM CADMIUM AND CHROME
Total Amt Of Waste Stream Generated in Reporting Yr 1: 813.13
Total Amt Of Waste Stream Generated in Reporting Yr 2: 157.36000000000001

Year : 2007

BOEING OF PORTLAND (Continued) **1000257073**

RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105618FLE
Ship Date : 02/21/2007
TSD : WAD991281767
WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 40401.410000000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 2345.5

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105760FLE
Ship Date : 08/20/2007
TSD : WAD991281767
WS Num: 21
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H010
EPA Waste Codes: D009
Waste Description: CRUSHED FLUORESCENT LIGHT TUBES
Total Amt Of Waste Stream Generated in Reporting Yr 1: 53.969999999999999
Total Amt Of Waste Stream Generated in Reporting Yr 2: 53.969999999999999

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105816FLE
Ship Date : 10/17/2007
TSD : WAD991281767
WS Num: 17
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT SOLVENT: TETRACHLOROETHYLENE; OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: 4106.8999999999996
Total Amt Of Waste Stream Generated in Reporting Yr 2: 291.60000000000002

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105610fle
Ship Date : 02/07/2007
TSD : WAD991281767

BOEING OF PORTLAND (Continued) **1000257073**

WS Num: 19
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: 40401.410000000003
Total Amt Of Waste Stream Generated in Reporting Yr 2: 554.63

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105799FLE
Ship Date : 09/19/2007
TSD : WAD991281767
WS Num: 27
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H132
EPA Waste Codes: F006
Waste Description: WASTE WATER TREATMENT EQUIPMENT CONTAMINATED WITH F006 WWT SLUDGE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 9269.5400000000009
Total Amt Of Waste Stream Generated in Reporting Yr 2: 178.22999999999999

Year : 2007
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105701FLE
Ship Date : 06/27/2007
TSD : WAD991281767
WS Num: 28
Transporter: WAR000001743
Ship Qty : Not reported
Rpt Unit : Not reported
Off Mng : H040
EPA Waste Codes: D001 D007
Waste Description: ALODINE 1200 MIXTURE Solid: CHROMIC ACID, POTASSIUM FERRICYANIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: 43.990000000000002
Total Amt Of Waste Stream Generated in Reporting Yr 2: 43.990000000000002

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2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105520FLE
Ship Date : 09/20/2006
TSD : WAD991281767

BOEING OF PORTLAND (Continued) **1000257073**

WS Num: Not reported
Transporter: ORQ000011668
Ship Qty : 1187
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D006
Waste Description: Ammonium Nitrate Duct Sludge
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q1095
Ship Date : 07/26/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 2202
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: D003 D006 D007
Waste Description: Cyanide Salts and Carbonates Precipitated in Air Handling Ducts
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q1164
Ship Date : 08/09/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 1282
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q0442
Ship Date : 04/05/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: NJD080631369
Ship Qty : 550
Rpt Unit : LB
Off Mng : H050
EPA Waste Codes: D001 D018 D035

BOEING OF PORTLAND (Continued) **1000257073**

Waste Description: CONTAINERS OF PAINT: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105549FLE
Ship Date : 11/15/2006
TSD : WAR000001743
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 1193
Rpt Unit : LB
Off Mng : H050
EPA Waste Codes: D007 D018 D035
Waste Description: DRUMMED PAINTS: BENZENE METHYL ETHYL KETONE TOLUENE
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q1184
Ship Date : 08/09/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 5630
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT ACTIVATED CARBON WITH TETRACHLOROETHYLENE AND OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q0223
Ship Date : 02/22/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAD061672812
Ship Qty : 213
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS: ALUMINUM IRON
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481

BOEING OF PORTLAND (Continued) **1000257073**

Inactive : Not reported
Status: Large quantity generator
Manifest : Q1296
Ship Date : 08/31/2006
TSD : ORD089452353
WS Num: Not reported
Transporter: ORQ000011668
Ship Qty : 1550
Rpt Unit : LB
Off Mng : H112
EPA Waste Codes: D005 D006 D007 D008 D010 D035
Waste Description: DEBRIS CONTAMINATED WITH PAINTS AND SEALANTS: BARIUM
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q0636
Ship Date : 05/17/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 4790
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q1261
Ship Date : 08/23/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 2467
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105558FLE
Ship Date : 11/29/2006
TSD : WAD991281767
WS Num: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Transporter: WAR000001743
Ship Qty : 2533
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D003 D006 F006
Waste Description: WASTEWATER TREATMENT-ELECTROPLATING SLUDGE: FROM CYANIDE DESTRUCT UNIT
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105530FLE
Ship Date : 10/18/2006
TSD : WAR000001743
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 189
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D001
Waste Description: FLAMMABLE METALLIC POWDERS: ALUMINUM IRON
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105550FLE
Ship Date : 11/16/2006
TSD : WAD020257945
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 4654
Rpt Unit : LB
Off Mng : H135
EPA Waste Codes: D002 D006 D007
Waste Description: ALDOX ETCH SOLUTION
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q0561
Ship Date : 05/03/2006
TSD : ORD089452353
WS Num: Not reported
Transporter: WAD061672812
Ship Qty : 1561
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: D003 F007
Waste Description: SPENT CADMIUM-CYANIDE ELECTROPLATING SOLUTION/SLUDGE: CALCIUM HYDROXIDE SOL

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q0636
Ship Date : 05/17/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 251
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: D001 D007
Waste Description: Lab Pack (Alodine Solid)
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q0636
Ship Date : 05/17/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 642
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT SOLVENT: TETRACHLOROETHYLENE; OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : 000105566fle
Ship Date : 12/13/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 133
Rpt Unit : LB
Off Mng : H112
EPA Waste Codes: D006
Waste Description: MISCELLANEOUS DEBRIS (PUMPS PIPE AND PPE FROM TI CAD PLATING OPERATIONS
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Status: Large quantity generator
Manifest : Q0993
Ship Date : 06/26/2006
TSD : WAD020257945
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 23852
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: CADMIUM STRIP SOLUTION: CADMIUM AMMONIUM NITRATE SODIUM HYDROXIDE
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q1020
Ship Date : 07/12/2006
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 642
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: F001
Waste Description: SPENT SOLVENT: TETRACHLOROETHYLENE; OIL
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2006
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : Q0443
Ship Date : 04/05/2006
TSD : ORD089452353
WS Num: Not reported
Transporter: WAD061672812
Ship Qty : 440
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D006 D007
Waste Description: WASTE WATER TREATMENT SLUDGE FROM CDU
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Click this hyperlink while viewing on your computer to access
2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

Manifest:
Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Status: Large quantity generator
Manifest : O0020
Ship Date : 01/21/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 5678
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D003 D006 F006
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0915
Ship Date : 10/08/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 1194
Rpt Unit : LB
Off Mng : H050
EPA Waste Codes: D007 D018 D035
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0370
Ship Date : 05/12/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 642
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: F001
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0957
Ship Date : 11/01/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743

BOEING OF PORTLAND (Continued) **1000257073**

Ship Qty : 642
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: F001
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0036
Ship Date : 01/14/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 3788
Rpt Unit : LB
Off Mng : H050
EPA Waste Codes: F001
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0621
Ship Date : 06/29/2004
TSD : ORD089452353
WS Num: Not reported
Transporter: WAD061672812
Ship Qty : 194
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D006
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0783
Ship Date : 09/08/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 482
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: D006 D007 F001 F002
Waste Description: Not reported
Total Amt Of Waste Stream Generated in Reporting Yr 1: Not reported

BOEING OF PORTLAND (Continued) **1000257073**

Total Amt Of Waste Stream Generated in Reporting Yr 2: Not reported

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0293
Ship Date : 04/06/2004
TSD : ORD089452353
WS Num: Not reported
Transporter: WAD061672812
Ship Qty : 114
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D006
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0246
Ship Date : 03/05/2004
TSD : ORD089452353
WS Num: Not reported
Transporter: ORQ000011668
Ship Qty : 3660
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D005 D006 D007 D008 D010 D018
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0957
Ship Date : 10/20/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 597
Rpt Unit : LB
Off Mng : H050
EPA Waste Codes: D007 D018 D035
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator

BOEING OF PORTLAND (Continued) **1000257073**

Manifest : O1006
Ship Date : 11/11/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 1040
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D003 D006 F006
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0783
Ship Date : 09/08/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 300
Rpt Unit : LB
Off Mng : H077
EPA Waste Codes: D006 D007
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O1086
Ship Date : 11/17/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 597
Rpt Unit : LB
Off Mng : H050
EPA Waste Codes: D007 D018 D035
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0371
Ship Date : 05/05/2004
TSD : ORD089452353
WS Num: Not reported
Transporter: WAD061672812
Ship Qty : 440

BOEING OF PORTLAND (Continued) **1000257073**

Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: D002 D003 D006 F007
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0150
Ship Date : 03/03/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 642
Rpt Unit : LB
Off Mng : H040
EPA Waste Codes: F001
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O1135
Ship Date : 12/10/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 550
Rpt Unit : LB
Off Mng : H050
EPA Waste Codes: D001 D018 D035
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0941
Ship Date : 10/01/2004
TSD : ORD089452353
WS Num: Not reported
Transporter: INR000102921
Ship Qty : 2400
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D005 D006 D007 D008 D010 D018
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

BOEING OF PORTLAND (Continued) **1000257073**

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0577
Ship Date : 07/28/2004
TSD : ORD089452353
WS Num: Not reported
Transporter: WAD061672812
Ship Qty : 302
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: F006
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O0479
Ship Date : 06/04/2004
TSD : WAD991281767
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 3227
Rpt Unit : LB
Off Mng : H132
EPA Waste Codes: D003 D006 F006
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

Year : 2004
RCRA Id : ORD054964481
Inactive : Not reported
Status: Large quantity generator
Manifest : O1293
Ship Date : 12/22/2004
TSD : WAD020257945
WS Num: Not reported
Transporter: WAR000001743
Ship Qty : 23644
Rpt Unit : LB
Off Mng : H077
EPA Waste Codes: D002 D006 D007 D008
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

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2505 additional OR_MANIFEST: record(s) in the EDR Site Report.

I36 **NORTHWEST RETREADERS** **CERCLIS** **1000707651**
ESE **19004 NE SAN RAFAEL ST** **ECSI** **ORD987197415**
1/2-1 **PORTLAND, OR 97230** **LUST**
0.965 mi. **UST**
5097 ft. **Site 1 of 2 in cluster I** **SPILLS**
OR HAZMAT
Relative: **HSIS**
Higher **NPDES**
UIC

Actual:
185 ft.

CERCLIS:

Site ID:	1001669
EPA ID:	ORD987197415
Facility County:	MULTNOMAH
Short Name:	NORTHWEST RETREADERS
Congressional District:	03
IFMS ID:	Not reported
SMSA Number:	6440
USGC Hydro Unit:	17090012
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	1001581
RST Code:	Not reported
EPA Region:	10
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Site is Part of NPL Site
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Not reported
Non NPL Status Date:	/ /
Site Fips Code:	41051
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	10000130.00000
Contact Name:	GARY SINK
Contact Tel:	(206) 553-4687
Contact Title:	Remedial Project Manager (RPM)
Contact Email:	Not reported

CERCLIS Site Alias Name(s):

Alias ID:	101
Alias Name:	N.R.I.
Alias Address:	Not reported OR
Alias Comments:	Not reported

Site Description: Not reported

NORTHWEST RETREADERS (Continued) **1000707651**

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	07/19/92
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	08/01/94
Date Completed:	08/01/94
Priority Level:	Addressed as part of an existing NPL site
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

ECSI:

State ID Number:	1268
Brown ID:	0
Study Area:	False
Region ID:	2
Legislatve ID:	0
Investigation:	Suspect
FACA ID:	7986
Further Action:	0
Lat/Long (dms):	45 32 12.10 / -122 28 2.60
County Code:	26.00
Score Value:	Not reported
Cerclis ID:	987197415
Township Coord.:	1.00
Township Zone:	N
Range Coord:	3.00
Range Zone:	E
Section Coord:	29
Qtr Section:	Not reported
Tax Lots:	Not reported
Size:	Not reported
NPL:	False
Orphan:	False
Updated By:	GWISTAR
Update Date:	12/18/2007
Created Date:	01/13/1993
Decode For RegionID:	Northwest Region
Decode For BrownID:	Not reported
Decode For Furtheract:	Not reported
Decode For Investstat:	Suspect

NORTHWEST RETREADERS (Continued) **1000707651**

Decode For Legislative: Not reported
Alias Name: NW Retreaders

Narrative:
NARR ID: 5732530
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: CERCLIS discovery 7/19/92- While the NW Retreaders site is located within an area-wide groundwater contamination zone, a review of DEQ files on the site, the gathering of additional site history, and a site visit have provided no evidence that the NW Retreaders site is a source of the area-wide contamination. (11/7/97 LSK) According to Barbara Atkins, City of Gresham, sampling over the past year at the NPDES sampling station, which would include storm discharge from NW Retreaders and other area industries, has found the following: TCE - 0.8 ppb - 4/11/96; toluene - 1.3 ppb - 1/5/96. Because there are a number of industries in this area, it would be difficult to determine the source of these contaminants. This information is recorded here in case any future investigation at NW Retreaders indicates use/disposal of these substances.

NARR ID: 5732531
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: 5732532
NARR Code: Remedial Action
Created By: Not reported
Created Date: 12/17/2002
Updated By: YJOHNSO
Updated Date: 10/27/2004
Decode for NarcdID: Remedial Action
NARR Comments: (9/12/95 DMC/SAS) Site added to CERCLIS on 7/19/92. (11/17/97 LSK) Site re-evaluated as part of review of all sites within the Columbia Slough Study Area. Storm drains in this area release to a channel of the Columbia Slough. According to a consultant who conducted a site visit at NW Retreaders in late 1996, there is a dry well located in the mill building that has never been hooked into the storm drain line. He also noticed some staining along one ditch on the property. A letter to the owner will be sent advising him that DEQ has concerns regarding this report. Until these issues are resolved, the NFA issued for the site in August 1994 is void.

Administrative Action:
Action ID: 9506
Region: Northwestern Region
Complete Date: 11/24/1997
Rank Value: 0
Cleanup Flag: False

NORTHWEST RETREADERS (Continued) **1000707651**

Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: Site Investigation recommended (SI)
Further Action: Not reported
Comments: Not reported

Action ID: 9426
Region: Northwestern Region
Complete Date: 11/24/1997
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE PRIORITY EVALUATION FOR FURTHER ACTION
Further Action: Not reported
Comments: Based on a report that a drywell in a process area may not be hooked into the storm drain system, a letter is being sent to NW Retreaders.

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: 9425
Region: Northwestern Region
Complete Date: 08/16/1993
Rank Value: 0
Cleanup Flag: False

NORTHWEST RETREADERS (Continued) **1000707651**

Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9456
Region: Northwestern Region
Complete Date: 08/05/1994
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: BASIC PRELIMINARY ASSESSEMENT
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Not reported
Complete Date: 08/17/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Not reported
Category: Listing Action
Action Code Flag: False
Action: Listing Review completed
Further Action: Not reported
Comments: Not reported

Action ID: 9449
Region: Not reported
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: Not reported
Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Pending PA completion.

Action ID: 9443
Region: Northwestern Region
Complete Date: 08/05/1994
Rank Value: Not reported
Cleanup Flag: False
Created Date: 12/18/2007

NORTHWEST RETREADERS (Continued) **1000707651**

Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 132581
Operation Status: Unknown
Common Name: NW Retreaders
Yrs of Operation: Not reported
Comments: tire retreaders
Updated Date: 03/13/1995
Updated By: jxh
Decode for OpstatID: Unknown
Operations SIC Id: 195835
SIC Code: 7534
Created By: Not reported
Created Date: 12/17/2002

LUST:
Region: North Western Region
Facility ID: 26-01-0009
Cleanup Received Date: 02/01/2001
Cleanup Start Date: 02/01/2001
Cleanup Complete Date: 03/14/2001
Decode for Region: North West Region

Region: North Western Region
Facility ID: 26-10-0426
Cleanup Received Date: 05/06/2010
Cleanup Start Date: 05/20/2010
Cleanup Complete Date: Not reported
Decode for Region: North West Region

UST:
Facility ID: 1881
Facility Telephone: (503) 665-6144
Permittee Name: Devon Hilton
Number of Permitted Tanks: 1
Active Tanks: 1
Decommissioned Tanks: 3
Number of Tanks: 4

OR SPILLS:
Facility ID: 2004-1738
Incident Status: Archive
Material: Not reported
Quantity: 100000
Unit of Measure: Gallons
Release Date: 08/07/2004
Description: Fire at tire retreading facility involving stored materials (carbon, rubber, etc.).
Lat/Long: 45.537 / -122.4681

NORTHWEST RETREADERS (Continued) **1000707651**

Source: Industrial Plant
Media: Not reported
Responsible Company: NW Retreaders, Inc.
Responsible Address: 19004 NE San Rafael
Responsible City,St,Zip: Gresham, OR 97230

Facility ID: 2004-1738
Incident Status: Archive
Material: Not reported
Quantity: 100000
Unit of Measure: Gallons
Release Date: 08/07/2004
Description: Fire at tire retreading facility involving stored materials (carbon, rubber, etc.).
Lat/Long: 45.537 / -122.4681
Source: Industrial Plant
Media: Coding for the PS/BC Oil Spill Database
Responsible Company: NW Retreaders, Inc.
Responsible Address: 19004 NE San Rafael
Responsible City,St,Zip: Gresham, OR 97230

Facility ID: 2004-1738
Incident Status: Archive
Material: Not reported
Quantity: 100000
Unit of Measure: Gallons
Release Date: 08/07/2004
Description: Fire at tire retreading facility involving stored materials (carbon, rubber, etc.).
Lat/Long: 45.537 / -122.4681
Source: Industrial Plant
Media: Non-saturated soil, rock, etc.
Responsible Company: NW Retreaders, Inc.
Responsible Address: 19004 NE San Rafael
Responsible City,St,Zip: Gresham, OR 97230

HAZMAT:

Responsble Party:	Not reported
RP Company:	NORTHWEST RETRADERS
RP Address:	19004 NE SAN RAFAEL ST.
RP City,St,Zip:	PORTLAND, OR 97203
Facility ID:	940104
OERS Number:	Not reported
Dept Rsp:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported

NORTHWEST RETREADERS (Continued) **1000707651**

Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Date Added:	01/01/1985
Unit:	Not reported
Agency Phone:	0006692480
Osfm Incident Report Number:	940104
Dept. Responding:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Person Making Report:	CLAYTON MARTIN
Title:	FIRE LT
Agency:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Phone:	0006692480
Date Of Incident:	04/16/1994
Call Time:	1:04:00 PM
In Route:	12:00:00 AM
Arrival:	1:07:00 PM
Depart Scene:	12:00:00 AM
Back In Quarters:	12:00:00 AM
In Service:	1:48:00 PM
Dist Of Incident:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Were State Resources Used?:	False
Was Oers Notified?:	False
Oers Number:	Not reported
Team Number:	HM03
Agency Report Number:	94-1674
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Waterway
Area Type:	Industrial
Responsible Party(Ies):	Not reported
Company:	NORTHWEST RETRADERS
Respcontact:	Not reported
Address:	19004 NE SAN RAFAEL ST.
Resp City:	PORTLAND
Resp State:	OR
Resp ZipCode:	97203

NORTHWEST RETREADERS (Continued) **1000707651**

Phone:	0006656144
Resp Phone2:	Not reported
Weather:	0
Temperature:	0
Wind Speed:	0
Wind Direction:	Not reported
Were Haz Materials Released?:	True
Operation Performed:	Normal Operation
Cause:	Unknown
Vehicle And Cargo:	0
Fixed Property:	0
Total Loss:	$0.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

Chemical:

Chemical Info:	6919
Chemical Id:	35430
Incident Id:	940104
Chemical Name:	UNKNOWN CHEMICAL
UNNA:	Not reported
Amount At Risk:	0
Amount Released:	0
Amount Measured:	0
Biological:	False
Radiological:	False

Chemical Id:	35430
Chemical Name:	UNKNOWN CHEMICAL
Hazardous Ingredient:	UNKNOWN CHEMICAL
Hazardous Class 1:	9.0
Hazardous Class 2:	Not reported
Hazardous Rank:	2
Case Number:	Not reported
UNNA Number:	Not reported
EPA Pest Reg:	Not reported
EHA Chem:	Not reported
PSM Chem:	Not reported
CAA 112R Chem:	Not reported

Method:

Method Used Id:	5367
Incident Id:	940104
Identity Method:	5

Released:

Release Behavior Id:	4251
Incident Id:	940104

NORTHWEST RETREADERS (Continued) **1000707651**

Behavior: 4

Narrative:

Narrative Id: 4701
Incident Id: 940104
Incident Narrative: ANTIFREEZE CONTAINED IN LARGE TIRES WAS RELEASED WHEN THESE TIRES WERE REMOVED FROM THEIR WHEELS. ANTIFREEZE WAS PUT INTO THE TIRES TO KEEP THEM FROM FREEZING DURING WINTER TIME TRANSPORT FROM MONTANA TO THIS PLANT WHERE THEY ARE TO BE RETREADED. ANTIFRE
Incident Date: 4/16/1994

Responsble Party:	NORTHWEST RETREAD INC
RP Company:	Not reported
RP Address:	19004 NE SAN RAFAEL ST
RP City,St,Zip:	GRESHAM, OR 97030
Facility ID:	040152
OERS Number:	Not reported
Dept Rsp:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Narrative:	Not reported
Property Loss:	Not reported
Amount Released:	Not reported
Service County:	Not reported
Service Name:	Not reported
Incident Type:	Not reported
Civilian Casualty Activity:	Not reported
Chemical Name:	Not reported
Hazmat Area Affected:	Not reported
Hazmat Area Evacuated:	Not reported
Hazmat Container Type:	Not reported
Hazmat Physical State Released:	Not reported
Hazmat Released Into:	Not reported
Hazmat Released Volume Units:	Not reported
Hazmat Released Weight Units:	Not reported
Hazmat Released From:	Not reported
Hazmat Area Affected Measurement:	Not reported
Hazmat No. of People Evacuated:	Not reported
Hazmat No of Buildings Evacuated:	Not reported
Incident Content Loss:	Not reported
Civilian Casualty Patient Disposition:	Not reported
Incident Mixed Use Property:	Not reported
Location Type:	Not reported
Incident Aid Given Or Received:	Not reported
Incident AID Received from FDID:	Not reported
Incident Aided Department FDID:	Not reported
Person Involved Business Name:	Not reported
Person Involved First Name:	Not reported
Person Involved Last Name:	Not reported
Person Involved Type:	Not reported
Person Involved Phone Number:	Not reported
Person Involved Primary Language:	Not reported
Hazmat Evacuated Measurement:	Not reported
Hazmat Story of Release:	Not reported
Remark:	Not reported
Incident District:	GRESHAM FIRE & EMERG SRVCS
Date Added:	01/06/2005
Unit:	Not reported

NORTHWEST RETREADERS (Continued) **1000707651**

Agency Phone:	5036182590
Osfm Incident Report Number:	040152
Dept. Responding:	HAZMAT TEAM GRESHAM\\MULTNOMAH - 03
Person Making Report:	STEVE BEST
Title:	CAPTAIN
Agency:	GRESHAM FIRE & EMERG SRVCS
Phone:	5036182590
Date Of Incident:	08/07/2004
Call Time:	3:45:00 PM
In Route:	3:46:00 PM
Arrival:	3:55:00 PM
Depart Scene:	11:39:00 PM
Back In Quarters:	1:46:00 AM
In Service:	4:00:00 AM
Dist Of Incident:	GRESHAM FIRE & EMERG SRVCS
Were State Resources Used?:	True
Was Oers Notified?:	True
Oers Number:	Not reported
Team Number:	HM03
Agency Report Number:	04-7418
Unit:	Not reported
Highway:	Not reported
Mile Post:	Not reported
Scene Type:	Private Land
Area Type:	Industrial
Responsible Party(Ies):	NORTHWEST RETREAD INC
Company:	Not reported
Respcontact:	WILLIS GILL
Address:	19004 NE SAN RAFAEL ST
Resp City:	GRESHAM
Resp State:	OR
Resp ZipCode:	97030
Phone:	Not reported
Resp Phone2:	Not reported
Weather:	1
Temperature:	7
Wind Speed:	1
Wind Direction:	N
Were Haz Materials Released?:	True
Operation Performed:	Normal Operation
Cause:	Fire/Explosion
Vehicle And Cargo:	150000
Fixed Property:	0
Total Loss:	$150,000.00
Hazmat Population Density:	Not reported
HazMat Actions Taken - Description:	Not reported
Hazmat Factors Contributing To Release:	Not reported
Hazmat DOT Hazard Classification:	Not reported
Hazmat CAS Number:	Not reported
Hazardous Materials Release:	Not reported
Fire Incident Type:	Not reported
Property Use:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Hazmat Disposition:	Not reported

HAZMAT:

Casualties Id:	7

NORTHWEST RETREADERS (Continued) **1000707651**

Incident Id: 040152
Casualties Type: 3
Injury Exp: 0
Injury Other: 2
Death Exp: 0
Death Other: 0
Hopitalized: 0

Chemical:
Chemical Info: 13
Chemical Id: 5686
Incident Id: 040152
Chemical Name: CARBON
UNNA: Not reported
Amount At Risk: 0
Amount Released: 0
Amount Measured: 0
Biological: False
Radiological: False

Chemical Id: 5686
Chemical Name: CARBON
Hazardous Ingredient: CARBON
Hazardous Class 1: 4.5
Hazardous Class 2: Not reported
Hazardous Rank: 1
Case Number: 7440440
UNNA Number: 1361
EPA Pest Reg: Not reported
EHA Chem: Not reported
PSM Chem: Not reported
CAA 112R Chem: Not reported

Chemical Info: 14
Chemical Id: 33380
Incident Id: 040152
Chemical Name: ZINC OXIDE
UNNA: Not reported
Amount At Risk: 0
Amount Released: 0
Amount Measured: 0
Biological: False
Radiological: False

Chemical Id: 33380
Chemical Name: ZINC OXIDE
Hazardous Ingredient: ZINC OXIDE
Hazardous Class 1: 6.3
Hazardous Class 2: Not reported
Hazardous Rank: 1
Case Number: 1314132
UNNA Number: Not reported
EPA Pest Reg: Not reported
EHA Chem: N
PSM Chem: N
CAA 112R Chem: N

NORTHWEST RETREADERS (Continued) **1000707651**

Chemical Info:	134
Chemical Id:	34509
Incident Id:	040152
Chemical Name:	ASC-10
UNNA:	Not reported
Amount At Risk:	0
Amount Released:	0
Amount Measured:	0
Biological:	False
Radiological:	False

Chemical Id:	34509
Chemical Name:	ASC-10
Hazardous Ingredient:	Not reported
Hazardous Class 1:	9.0
Hazardous Class 2:	Not reported
Hazardous Rank:	2
Case Number:	Not reported
UNNA Number:	Not reported
EPA Pest Reg:	Not reported
EHA Chem:	Not reported
PSM Chem:	Not reported
CAA 112R Chem:	Not reported

Chemical Info:	135
Chemical Id:	34510
Incident Id:	040152
Chemical Name:	ASC-22
UNNA:	Not reported
Amount At Risk:	0
Amount Released:	0
Amount Measured:	0
Biological:	False
Radiological:	False

Chemical Id:	34510
Chemical Name:	ASC-22
Hazardous Ingredient:	Not reported
Hazardous Class 1:	9.0
Hazardous Class 2:	Not reported
Hazardous Rank:	2
Case Number:	Not reported
UNNA Number:	Not reported
EPA Pest Reg:	Not reported
EHA Chem:	Not reported
PSM Chem:	Not reported
CAA 112R Chem:	Not reported

Released:

Release Behavior Id:	20
Incident Id:	040152
Behavior:	11

Release Behavior Id:	21
Incident Id:	040152
Behavior:	4

NORTHWEST RETREADERS (Continued) **1000707651**

Narrative:
- Narrative Id: 11
- Incident Id: 040152
- Incident Narrative: FIRE IN THE BACK STORAGE YARD OF NW RETREADERS INC. FIRE CREWS WORKED TO PUT OUT FIRE. HM-3 CALLED IN TO DO DECON.
- Incident Date: 8/7/2004

HSIS:
- Facility Id: 015898
- Chemical Is Extremely Hazardous Substance (EHS): No
- Department Or Division Of Company: Not reported
- Facility Has Written Emergency Plan: No
- Contains 112R: No
- NAICS Code 1: 326212
- NAICS Desc 1: TIRE RETREADING
- NAICS Code 2: 000000
- NAICS Desc 2: Not reported
- Manager Name: WILLIS GILL
- Business Phone: 5036656144
- Mailing Address: 19004 NE SAN RAFAEL ST
- Mailing City,St,Zip: PORTLAND, OR 97230
- No. of Employees: 60
- Day Phone: 5036656144
- Placard: Yes
- Fire Dept Code: 0144
- Sprinkler System: Yes
- Emergency Contact: WILLIS GILL
- Emergency Procedure: Not reported
- Business Type: TIRE RETREADING

Facility:
- Facility Id: 015898
- Physical State Of The Substance: 2
- Physical State: LIQUID
- Average Amount Possessed During The Year Code: 20
- Maximum Amount Possessed During The Year Code: 30
- Applicable Unit Of Measure Code: 2
- Description Of The Unit Of Measure: GALLONS
- Type Code: O
- Description: TOTEBIN
- 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: 10,000-49,999
- Description Of The Avg Qnty Code: 1,000-4,999
- Most Hazardous Ingridient: PHENYLENE DIAMINE
- United Nations/north America 4 Digit Class Number: Not reported

NORTHWEST RETREADERS (Continued) **1000707651**

Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	True
Substance Mix:	False
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	Not reported
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
First Hazardous Class Code For Chemical:	Combustible Material
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	4.5
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported
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
Contains 313:	Not reported

Facility Id:	015898
Physical State Of The Substance:	1
Physical State:	SOLID
Average Amount Possessed During The Year Code:	20
Maximum Amount Possessed During The Year Code:	20
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	J
Description:	BAG
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:	1,000-4,999
Most Hazardous Ingridient:	CARBON
United Nations/north America 4 Digit Class Number:	1361
Hazard Rank:	2
EHS Ingredient:	Not reported
Substance Pure:	True

NORTHWEST RETREADERS (Continued) **1000707651**

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

Chemical:

United Nations/north America 4 Digit Class Number:	1361
Chemical Abstract Service Identifier Number:	1333864
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
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 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
Contains 313:	Not reported

Facility Id:	015898
Physical State Of The Substance:	2
Physical State:	LIQUID
Average Amount Possessed During The Year Code:	20
Maximum Amount Possessed During The Year Code:	30
Applicable Unit Of Measure Code:	2
Description Of The Unit Of Measure:	GALLONS
Type Code:	O
Description:	TOTEBIN
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:	10,000-49,999
Description Of The Avg Qnty Code:	1,000-4,999
Most Hazardous Ingridient:	PETROLEUM HYDROCARBON
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:	Flammable and Combustible Liquid
Second Hazardous Class Code For Chemical:	Not reported

NORTHWEST RETREADERS (Continued) **1000707651**

Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	3.0
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	Not reported
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
First Hazardous Class Code For Chemical:	Flammable and Combustible Liquid
Second Hazardous Class Code For Chemical:	Not reported
Third Hazardous Class Code For Chemical:	Not reported
Hazard Class 1 Of The Chemical:	3.0
Hazard Class 2 Of The Chemical:	Not reported
Hazard Class 3 Of The Chemical:	Not reported
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
Contains 313:	Not reported

Facility Id:	015898
Physical State Of The Substance:	2
Physical State:	LIQUID
Average Amount Possessed During The Year Code:	20
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:	1,000-4,999
Most Hazardous Ingridient:	PETROLEUM MID-DISTILLATES
United Nations/north America 4 Digit Class Number:	1993
Hazard Rank:	2
EHS Ingredient:	NONE LISTED ON MSDS
Substance Pure:	True
Substance Mix:	False
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:	Not reported
Hazard Class 1 Of The Chemical:	3.0
Hazard Class 2 Of The Chemical:	6.3

NORTHWEST RETREADERS (Continued) **1000707651**

Hazard Class 3 Of The Chemical: Not reported

Chemical:

United Nations/north America 4 Digit Class Number:	1993
Chemical Abstract Service Identifier Number:	68476346
Chemical Is Extremely Hazardous Substance (EHS):	No
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:	Not reported
Hazard Class 1 Of The Chemical:	3.0
Hazard Class 2 Of The Chemical:	6.3
Hazard Class 3 Of The Chemical:	Not reported
Chemical Is A Toxic 313 Chemical:	No
EPA Pesticide Registration Number:	Not reported
Contains 112R:	No
Contains EHS:	No
Fertilizer:	No
Pesticide:	No
Contains 313:	No

Facility Id:	015898
Physical State Of The Substance:	1
Physical State:	SOLID
Average Amount Possessed During The Year Code:	20
Maximum Amount Possessed During The Year Code:	20
Applicable Unit Of Measure Code:	1
Description Of The Unit Of Measure:	POUNDS
Type Code:	I
Description:	FIBER 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:	1,000-4,999
Most Hazardous Ingridient:	CARBON
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

Chemical:

NORTHWEST RETREADERS (Continued) **1000707651**

United Nations/north America 4 Digit Class Number:	Not reported
Chemical Abstract Service Identifier Number:	Not reported
Chemical Is Extremely Hazardous Substance (EHS):	Not reported
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 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
Contains 313:	Not reported

NPDES:

WQ File Nbr:	111262
Legal Name:	NRI INC
Region:	NWR
Pri SIC:	7534
Facility Type:	TIRE RETREADING & REPAIR SHOPS
Latitude:	45.5367
Longitude:	-122.4674
Category:	STM
Permit Type:	G12COLS
Permit Active:	True
Is Active?:	Not reported
Permit Description:	Stormwater; NPDES discharge to Columbia Slough
Expiration Date:	09/30/2016
EPA Number:	ORR233595
UIC Facility:	False
Admin Agent:	NW Region Office
Last Action Date:	05/16/2012
Permit Writer:	Murphy
Compliance Inspector:	Murphy
DMR Reviewer:	Murphy
Application Number:	967962
Class:	MINOR
Start Date:	03/09/2001
Region Decode:	North West Region

OR UIC:

UIC Well #:	1
Type:	5W20
Type Description:	Industrial Process Water And Waste Disposal
Status:	Active
UIC Number:	10187
Facility Status:	Not Registered
Lat/Long:	45.536201 / -122.4674

I37 **LIBBY MCNEIL & LIBBY** **CERCLIS** **1000165509**
ESE **19029 NE SAN RAFAEL ST** **ECSI** **ORD042484188**
1/2-1 **PORTLAND, OR 97230** **RCRA NonGen / NLR**
0.977 mi. **FINDS**
5157 ft. **Site 2 of 2 in cluster I** **ECHO**

Relative:
Higher

Actual:
184 ft.

CERCLIS:

Site ID:	1001654
EPA ID:	ORD042484188
Facility County:	MULTNOMAH
Short Name:	LIBBY MCNEIL & LIBBY
Congressional District:	03
IFMS ID:	10P8
SMSA Number:	6440
USGC Hydro Unit:	17090012
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	1001581
RST Code:	Not reported
EPA Region:	10
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Site is Part of NPL Site
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Not reported
Non NPL Status Date:	/ /
Site Fips Code:	41051
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Alias Name(s):

Alias ID:	101
Alias Name:	ASSOCIATED FOODS
Alias Address:	Not reported
	OR
Alias ID:	201
Alias Name:	CONTINENTAL CAN
Alias Address:	Not reported
	OR
Alias ID:	301
Alias Name:	SENECA FOODS
Alias Address:	Not reported
	OR
Alias Comments:	Not reported

Site Description: Not reported

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

Date Started: / /
Date Completed: 04/01/92
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: 10/29/92
Date Completed: 10/29/92
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: 10/29/92
Date Completed: 12/29/92
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

ECSI:
State ID Number: 1259
Brown ID: 0
Study Area: False
Region ID: 2
Legislatve ID: 834
Investigation: No Further Action
FACA ID: 5315
Further Action: 0
Lat/Long (dms): 45 32 15.00 / -122 28 3.70
County Code: 26.00
Score Value: Not reported
Cerclis ID: 042484188
Township Coord.: 1.00
Township Zone: N
Range Coord: 3.00
Range Zone: E
Section Coord: 29
Qtr Section: Not reported
Tax Lots: 715
Size: 2 acres
NPL: False
Orphan: False

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

Updated By: GWISTAR
Update Date: 02/26/2009
Created Date: 11/18/1992
Decode For RegionID: Northwest Region
Decode For BrownID: Not reported
Decode For Furtheract: Not reported
Decode For Investstat: No Further Action
Decode For Legislative: Environmental Protection Agency
Alias Name: Associated Food Services
Alias Name: Libby Can/Associated Foods
Alias Name: Consolidated Can Co.
Alias Name: Continental Can

Narrative:
NARR ID: 5732491
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: (9/92 EPA/TAT) The site is the location of a former can manufacturing plant. In 1992, former employees alleged that waste solvents had been dumped at the site during the mid- to late 1960s. Samples taken by the current owner had found no evidence of solvents. (2/19/93 BAG/SRS) EPA Site Inspection involved drilling 7 boneholes at the site for collection of soil samples at 5-foot intervals. Only one sample contained VOCs. Perchloroethylene was detected at 2 ppb in BH-4 at 5 feet below ground surface, which was below the method's practical quantitation limit.

NARR ID: 5732492
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) EPA Technical Assistance Team ***Final Report for Libby Can/Associated Foods Site Sampling and Assessment***, prepared by Ecology & Environment (9/92); 2) Environmental Site Assessment Report prepared for Associated Food Services by SRH Associates Inc. (2/7/89). Not reported

NARR ID: 5732493
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: solvents (including methyl ethyl ketone, 350 Thinner, and ***trichlor***)

NARR ID: 5732494
NARR Code: Manner of Release
Created By: Not reported
Created Date: 12/17/2002

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

Updated By: Not reported
Updated Date: 12/17/2002
Decode for NarcdID: Manner of Release
NARR Comments: Alleged past dumping of solvents, possibly in the mid to late 1960s.

NARR ID: 5732495
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 site is paved with ashpalt except for small strips of grass along the east and the south side of the property. The site is partly secured by a chain link fence with locked gates. No waste storage structures or USTs are known to exist at the site. On-site geology is dominated by a thick sequence of sandy gravel to cobble with large quartsize boulders. This sequence (the Troutdale Formation) is used for primary and backup water supplies for various municipal water districts.

NARR ID: 5732496
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: (11/3/92 EPA) Based on this investigation and other pertinent information, EPA finds that additional investigation may be warranted. (1/22/93 BAG/SRS) No further state action recommended based on lack of field or laboratory detections of VOCs and groundwater sample results from downgradient wells at Viking Industries. NOTE: EPA's 11/92 further-action decision was based on this site's proximity to the East Multnomah County Groundwater site.

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

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

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: 9459
Region: Headquarters
Complete Date: 01/22/1993
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: PRELIMINARY ASSESSMENT EQUIVALENT
Further Action: Not reported
Comments: Not reported

Action ID: 9425
Region: Headquarters
Complete Date: 11/19/1992
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: SITE EVALUATION
Further Action: Not reported
Comments: Not reported

Action ID: 9437
Region: Headquarters
Complete Date: 11/19/1992
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: 01/22/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Headquarters

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

Category: Listing Action
Action Code Flag: False
Action: Insufficient information to list
Further Action: Not reported
Comments: Pending completion of EPA investigation

Action ID: 9468
Region: Not reported
Complete Date: 12/29/1992
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 PA1/SI1
Further Action: Not reported
Comments: Not reported

Action ID: 9443
Region: Northwestern Region
Complete Date: 01/22/1993
Rank Value: 0
Cleanup Flag: False
Created Date: 12/17/2002
Decode for AgencyID: Department of Environmental Quality
Decode for RegionID: Northwest Region
Category: Remedial Action
Action Code Flag: False
Action: NO FURTHER STATE ACTION REQUIRED
Further Action: 0
Comments: Not reported

Operations:
Operation Id: 132572
Operation Status: Inactive
Common Name: Consolidated Can Co.
Yrs of Operation: 1963-1983
Comments: Can manufacturing
Updated Date: 02/21/1996
Updated By: kpd
Decode for OpstatID: Inactive
Operations SIC Id: 195672
SIC Code: 3411
Created By: Not reported
Created Date: 12/17/2002

Operation Id: 132573
Operation Status: Inactive
Common Name: Continental Can Co.
Yrs of Operation: 1983-1987
Comments: warehousing
Updated Date: 02/21/1996
Updated By: kpd
Decode for OpstatID: Inactive

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

RCRA NonGen / NLR:
Date form received by agency: 08/20/2003
Facility name: LIBBY MCNEIL & LIBBY
Facility address: 19029 NE SAN RAFAEL ST
PORTLAND, OR 97230
EPA ID: ORD042484188
Mailing address: W 115TH ST
WORTH, IL 60482
Contact: RAYMOND BATINA
Contact address: 5555 W 115TH ST
WORTH, IL 60482
Contact country: US
Contact telephone: (312) 597-4500
Contact email: Not reported
EPA Region: 10
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LIBBY MC NEILL & LIBBY INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/14/1980
Site name: LIBBY MCNEIL & LIBBY
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: F001

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: 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 name: 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.

Violation Status: No violations found

FINDS:

Registry ID: 110004782539

Environmental Interest/Information System

OR-DEQ (Oregon - Department Of Environmental Quality) is a regulatory agency whose job is to protect 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.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

ECHO:

Envid:	1000165509
Registry ID:	110004782539
FIPS Code:	41051
EPA Region:	10
Indian Country Flag:	N
Federal Flag:	Not reported
US Mexico Border Flag:	Not reported
Chesapeake Bay Flag:	Not reported
NAA Flag:	Not reported
Latitude:	45.537312
Longitude:	-122.467922
Map Icon:	RCRA-IC-MN-N.png
Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Reference Point:	ENTRANCE POINT OF A FACILITY OR STATION
Accuracy Meters:	50
Derived Tribes:	Not reported
Derived Huc:	17090012
Derived WBD:	170900120201
Derived STCT FPS:	41051
Derived Zip:	97230
Derived CD113:	03
Derived CB2010:	410510096041006
Percent Minority:	Not reported
Pop Den:	Not reported
Major Flag:	Not reported
Active Flag:	Not reported
MYRTK Universe:	NNN
Inspection Count:	0
Date Last Inspection:	Not reported
Days Last Inspection:	Not reported
Informal Count:	0
Date Last Informal Action:	Not reported
Formal Action Count:	0
Date Last Formal Action:	Not reported
Total Penalties:	0
Penalty Count:	0
Date Last Penalty:	Not reported
Last Penalty Amount:	Not reported
QTRS in NC:	0
Programs in SNC:	0
Curr Compliance Status:	No Violation
Curr SNC Flag:	N
3yr Compliance Status:	_____
AFS Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AFS IDS:	Not reported
CAA Permit Types:	Not reported
CAA NAICS:	Not reported
CAA SICS:	Not reported
CAA Evaluation Count:	Not reported
CAA Days Last Evaluation:	Not reported
CAA Informal Count:	Not reported

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

CAA Formal Action Count:	Not reported
CAA Date Last Formal Action:	Not reported
CAA Penalties:	Not reported
CAA Last Penality Date:	Not reported
CAA Last Penality Amount:	Not reported
CAA Qtrs in NC:	Not reported
CAA Curr Compliance Status:	Not reported
CAA Curr HPV Flag:	N
CAA 3yr Compl Qtrs Status:	Not reported
NPDES IDS:	Not reported
CWA Permit Types:	Not reported
CWA Compliance Tracking:	Not reported
CWA NAICS:	Not reported
CWA SICS:	Not reported
CWA Inspection Count:	Not reported
CWA Days Last Inspection:	Not reported
CWA Informal Count:	Not reported
CWA Formal Action Count:	Not reported
CWA Date Last Formal Action:	Not reported
CWA Penalties:	Not reported
CWA Last Penality Date:	Not reported
CWA Last Penality Amount:	Not reported
CWA Qtrs in NC:	Not reported
CWA Curr Compliance Status:	Not reported
CWA Curr SNC Flag:	N
CWA 13QTRS Compl Status:	Not reported
CWA 13QTRS EFFLNT Exceedances:	Not reported
CWA 3tr QNCR Codes:	Not reported
RCRA IDS:	ORD042484188
RCRA Permit Types:	Other
RCRA NAICS:	Not reported
RCRA Inspection Count:	Not reported
RCRA Days Last Evaluation:	Not reported
RCRA Informal Count:	Not reported
RCRA Formal Action Count:	Not reported
RCRA Date Last Formal Action:	Not reported
RCRA Penalties:	Not reported
RCRA Last Penality Date:	Not reported
RCRA Last Penality Amount:	Not reported
RCRA QTRS in NC:	0
RCRA Curr Compliance Status:	No Violation
RCRA Curr SNC Flag:	N
RCRA 3yr Compl Qtrs Status:	_____
SDWA IDS:	Not reported
SDWA System Types:	Not reported
SDWA Informal Count:	Not reported
SDWA Formal Action Count:	Not reported
SDWA Curr Compliance Status:	Not reported
SDWA Curr SNC Flag:	N
TRI IDS:	Not reported
TRI Releases Transfers:	Not reported
TRI on Site Releases:	Not reported
Tri off Site Transfers:	Not reported
TRI Reporter in Past:	Not reported
FEC Case IDS:	Not reported
FEC Number of Cases:	Not reported
FEC Last Case Date:	Not reported

LIBBY MCNEIL & LIBBY (Continued) **1000165509**

FEC Total Penalties:	Not reported
GHG IDS:	Not reported
GHG CO2 Release:	Not reported
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110004782539
Facility SIC Codes:	Not reported
Facility NAICS Codes:	Not reported
Facility Date Last Inspection EPA:	Not reported
Facility Date Last Inspection State:	Not reported
Facility Date Last Formal ACT EPA:	Not reported
Facility Date Last Formal ACT ST:	Not reported
Facility Date Last Inforamal ACT EPA:	Not reported
Facility Date Last Informal ACT ST:	Not reported
Facility Federal Agency:	Not reported
TRI Reporter:	Not reported
Facility IMP Water Flag:	Not reported

Count: 3 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
PORTLAND	S110072106	TRI-MET SOUTH CORRIDOR EXTENSION	ADJACENT TO I-205, BETWEEN NE		ECSI, VCP
PORTLAND	S106497104	V.A.- COLUMBIA SOUTH SHORE WELLFIE	N OF COLUMBIA/SANDY BLVDS. BET		ECSI
PORTLAND	S104820372	HEATING OIL TANK	13224 NE SACRAMENTO	97230	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

Federal NPL site list

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: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

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: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

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: 10/30/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: EPA
Telephone: N/A
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

Federal CERCLIS list

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: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/06/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - 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). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
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: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
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: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/29/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

CRL: Confirmed Release List and Inventory

All facilities with a confirmed release.

Date of Government Version: 11/01/2015
Date Data Arrived at EDR: 11/19/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-6170
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
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: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 01/14/2016
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 503-229-6629
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

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: 10/21/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 53

Source: Department of Environmental Quality
Telephone: 503-229-6299
Last EDR Contact: 01/19/2016
Next Scheduled EDR Contact: 05/02/2016
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

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: 10/01/2015
Date Data Arrived at EDR: 11/19/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 26

Source: Department of Environmental Quality
Telephone: 503-229-5790
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

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: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
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: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
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: 10/01/2015
Date Data Arrived at EDR: 11/19/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 26

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Quarterly

AST: Aboveground Storage Tanks

Aboveground storage tank locations reported to the Office of State Fire Marshal.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/21/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 42

Source: Office of State Fire Marshal
Telephone: 503-378-3473
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

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: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 05/09/2016
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: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

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: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

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: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Semi-Annually

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: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Quarterly

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: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
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: 01/01/2016
Date Data Arrived at EDR: 01/07/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 503-229-5193
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

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: 12/28/2015
Next Scheduled EDR Contact: 04/11/2016
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: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 01/05/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 24
Source: DEQ
Telephone: 503-229-5256
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Projects
Brownfields investigations and/or cleanups that have been conducted in Oregon.

Date of Government Version: 11/01/2015
Date Data Arrived at EDR: 11/19/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 25
Source: Department of Environmental Quality
Telephone: 503-229-6801
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
Data Release Frequency: Semi-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: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facility Location Listing
A listing of recycling facility locations.

Date of Government Version: 12/01/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 55
Source: Department of Environmental Quality
Telephone: 503-229-5353
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

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

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: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
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: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
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: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

AOC MU: East Multnomah County Area
Approximate extent of TSA VOC plume February , 2002

Date of Government Version: N/A
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

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 2: Clandestine Drug Lab Site Listing
A listing of clandestine drug lab site locations included in the Incident database.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 15

Source: Oregon State Police
Telephone: 503-373-1540
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

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: 10/23/2015
Date Data Arrived at EDR: 11/17/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 27

Source: Department of Consumer & Business Services
Telephone: 503-378-4133
Last EDR Contact: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
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: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
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: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Varies

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: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

SPILLS: Spill Data
Oil and hazardous material spills reported to the Environmental Response Program.

Date of Government Version: 09/29/2015
Date Data Arrived at EDR: 10/01/2015
Date Made Active in Reports: 11/10/2015
Number of Days to Update: 40

Source: Department of Environmental Quality
Telephone: 503-229-5815
Last EDR Contact: 12/30/2015
Next Scheduled EDR Contact: 04/18/2016
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: 09/28/2015
Date Data Arrived at EDR: 11/08/2015
Date Made Active in Reports: 01/05/2016
Number of Days to Update: 58

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
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: 06/09/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 12/18/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Varies

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: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
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: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

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: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
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: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/19/2016
Next Scheduled EDR Contact: 05/30/2016
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: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/30/2016
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: 02/09/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Every 4 Years

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: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
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: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
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: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/12/2016
Next Scheduled EDR Contact: 05/23/2016
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: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/12/2016
Next Scheduled EDR Contact: 04/25/2016
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: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/08/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

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: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

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: 06/26/2015
Date Data Arrived at EDR: 07/10/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 95
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/13/2016
Next Scheduled EDR Contact: 04/25/2016
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: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 03/21/2016
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/29/2016
Next Scheduled EDR Contact: 05/09/2016
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: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/07/2016
Next Scheduled EDR Contact: 04/18/2016
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: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

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: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/23/2015
Next Scheduled EDR Contact: 04/11/2016
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
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: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/26/2016
Next Scheduled EDR Contact: 04/18/2016
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: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2015
Next Scheduled EDR Contact: 04/11/2016
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: 08/18/2015
Date Data Arrived at EDR: 09/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 125

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

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: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
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: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

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: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (206) 553-1200
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AIRS: Oregon Title V Facility Listing
A listing of Title V facility source and emissions information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/16/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 42

Source: Department of Environmental Quality
Telephone: 503-229-6459
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites Listing
A listing of coal ash disposal sites.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/10/2015
Date Made Active in Reports: 11/10/2015
Number of Days to Update: 61

Source: Department of Environmental Quality
Telephone: 541-298-7255
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Facilities
A listing of registered drycleaning facilities in Oregon.

Date of Government Version: 11/12/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/14/2015
Number of Days to Update: 31

Source: Department of Environmental Quality
Telephone: 503-229-6783
Last EDR Contact: 02/16/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information for hazardous waste facilities.

Date of Government Version: 11/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 59

Source: Department of Environmental Quality
Telephone: 541-633-2011
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

Financial 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: 11/19/2015
Date Data Arrived at EDR: 11/23/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 503-229-5521
Last EDR Contact: 02/22/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Varies

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: 11/25/2015
Date Data Arrived at EDR: 12/21/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 42

Source: State Fire Marshal's Office
Telephone: 503-373-1540
Last EDR Contact: 02/01/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Semi-Annually

OR MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 06/16/2015
Date Made Active in Reports: 07/24/2015
Number of Days to Update: 38

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 02/23/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Annually

NPDES: Wastewater Permits Database
A listing of permitted wastewater facilities.

Date of Government Version: 11/12/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/15/2015
Number of Days to Update: 32

Source: Department of Environmental Quality
Telephone: 503-229-5657
Last EDR Contact: 02/08/2016
Next Scheduled EDR Contact: 05/23/2016
Data Release Frequency: Quarterly

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: 12/22/2015
Date Data Arrived at EDR: 12/28/2015
Date Made Active in Reports: 02/01/2016
Number of Days to Update: 35

Source: Department of Environmental Quality
Telephone: 503-229-5945
Last EDR Contact: 12/11/2015
Next Scheduled EDR Contact: 04/11/2016
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: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/21/2015
Next Scheduled EDR Contact: 04/04/2016
Data Release Frequency: Quarterly

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: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

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 Historic Gas 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 Historic Dry 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: 11/02/2015
Date Data Arrived at EDR: 11/08/2015
Date Made Active in Reports: 12/09/2015
Number of Days to Update: 31

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/03/2016
Next Scheduled EDR Contact: 05/16/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/09/2015
Next Scheduled EDR Contact: 03/28/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
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 PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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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.
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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 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

WILKES ELEMENTARY SCHOOL
17020 NE WILKES ROAD
PORTLAND, OR 97230

TARGET PROPERTY COORDINATES

Latitude (North):	45.541264 - 45° 32' 28.55''
Longitude (West):	122.48833 - 122° 29' 17.99''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	539947.1
UTM Y (Meters):	5042990.5
Elevation:	184 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5992265 CAMAS, WA
Version Date:	2013
West Map:	6067232 MOUNT TABOR, OR
Version Date:	2014

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 principal 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).

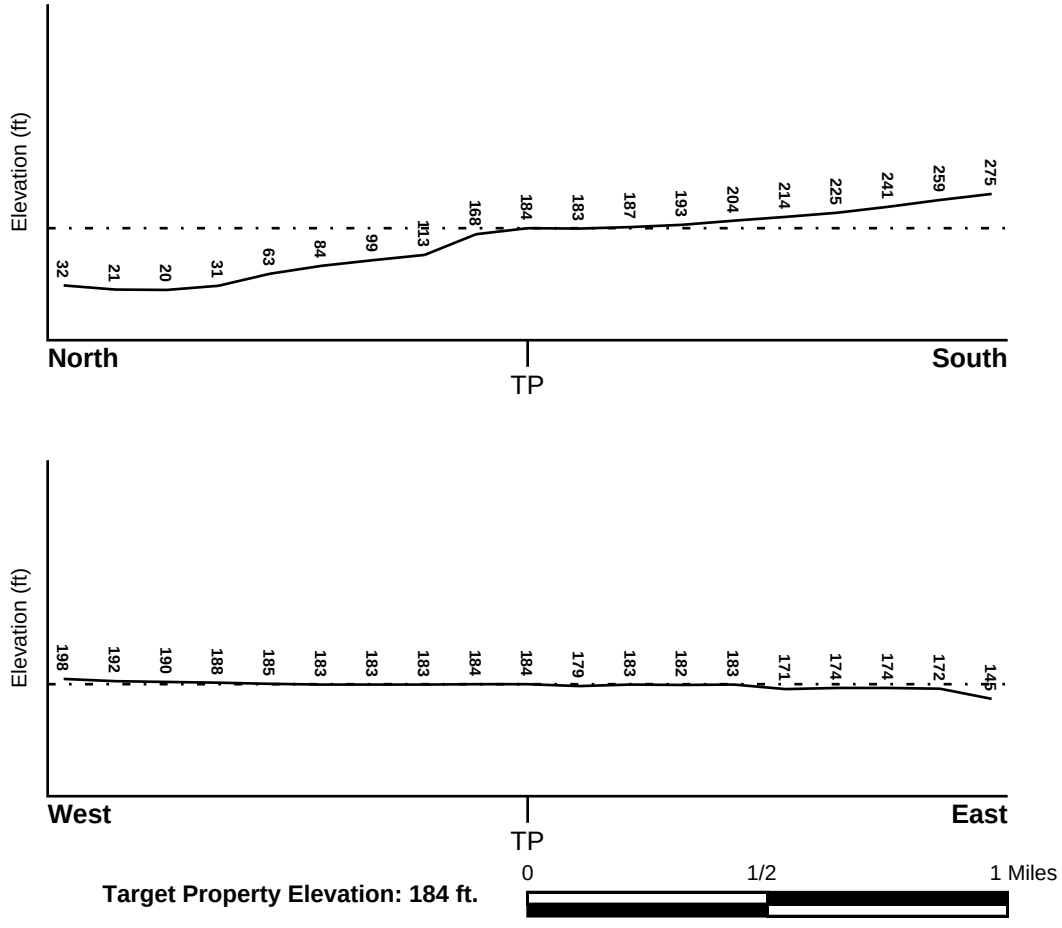
TOPOGRAPHIC INFORMATION

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 North

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

Target Property County	FEMA Flood Electronic Data
MULTNOMAH, OR	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 41051C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CAMAS	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

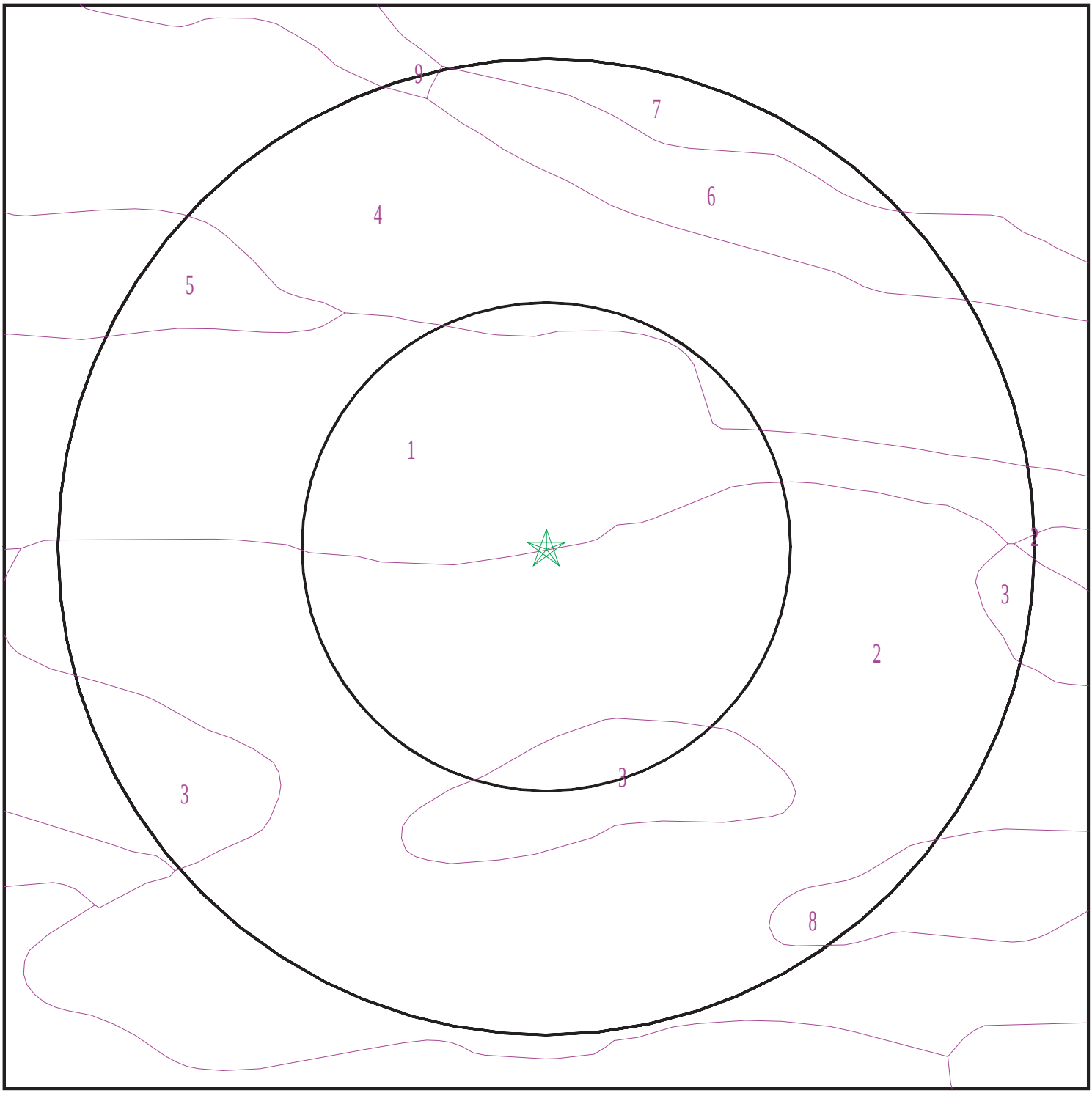
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

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 - 4560329.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Wilkes Elementary School	CLIENT:	GeoDesign Inc.
ADDRESS:	17020 NE Wilkes Road Portland OR 97230	CONTACT:	Kevin Cline
LAT/LONG:	45.541264 / 122.48833	INQUIRY #:	4560329.2s
		DATE:	March 10, 2016 11:09 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: Quatama

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 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	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	14 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6
3	33 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 2

Soil Component Name: Aloha

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 54 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	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	9 inches	48 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6
3	48 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6

Soil Map ID: 3

Soil Component Name: Multnomah

Soil Surface Texture: silt 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	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	7 inches	38 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 5.6
3	38 inches	59 inches	very gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 141 Min: 42	Max: 6.5 Min: 6.1

Soil Map ID: 4

Soil Component Name: Quatama

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

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		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	14 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6
3	33 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 5

Soil Component Name: Quatama

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

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		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	14 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6
3	33 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 6

Soil Component Name: Quafeno

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

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		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 6.1
2	16 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
3	35 inches	64 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
4	64 inches	75 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 7

Soil Component Name: Quafeno

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

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		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 6.1
2	16 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
3	35 inches	64 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
4	64 inches	75 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 8

Soil Component Name: Wollent

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 15 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	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 5.6
2	9 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 6 Min: 5.6

Soil Map ID: 9

Soil Component Name: Quafeno

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 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	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6.5 Min: 6.1

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		
2	16 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
3	35 inches	64 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
4	64 inches	75 inches	weathered bedrock	Not reported	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 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000993872	1/2 - 1 Mile ENE
B5	USGS40000993819	1/2 - 1 Mile ESE
E15	USGS40000993885	1/2 - 1 Mile NE
G21	USGS40000993884	1/2 - 1 Mile NE
I28	USGS40000993943	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

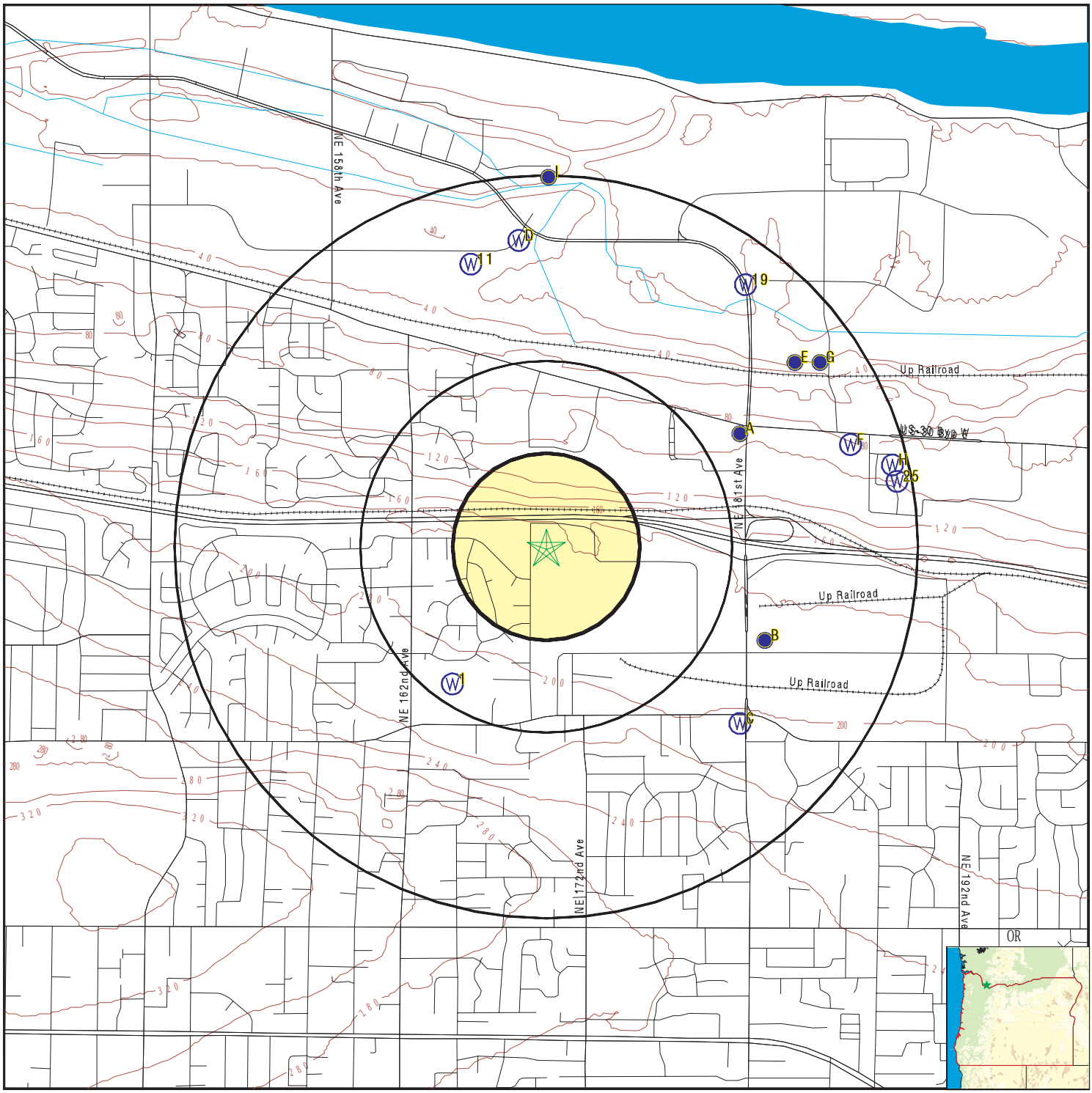
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	ORW500000004535	1/4 - 1/2 Mile SW
A3	ORW500000014269	1/2 - 1 Mile ENE
B4	ORW500000003688	1/2 - 1 Mile ESE
C6	ORI500000040200	1/2 - 1 Mile SE
C7	ORI500000041777	1/2 - 1 Mile SE
C8	ORI500000040202	1/2 - 1 Mile SE
C9	ORI500000040201	1/2 - 1 Mile SE
C10	ORI500000040203	1/2 - 1 Mile SE
11	ORW500000011796	1/2 - 1 Mile NNW
D12	ORI500000046608	1/2 - 1 Mile North
D13	ORW500000011795	1/2 - 1 Mile North
E14	ORW500000014273	1/2 - 1 Mile NE
D16	ORI500000046609	1/2 - 1 Mile North
F17	ORI500000047189	1/2 - 1 Mile ENE
F18	ORI500000013598	1/2 - 1 Mile ENE
19	ORI500000025101	1/2 - 1 Mile NE
G20	ORW500000014272	1/2 - 1 Mile NE
H22	ORI500000031281	1/2 - 1 Mile ENE
H23	ORI500000049931	1/2 - 1 Mile ENE
H24	ORI500000047201	1/2 - 1 Mile ENE
25	ORI500000049930	1/2 - 1 Mile East
H26	ORI500000049928	1/2 - 1 Mile ENE
I27	ORW500000011061	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 4560329.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location

SITE NAME:	Wilkes Elementary School	CLIENT:	GeoDesign Inc.
ADDRESS:	17020 NE Wilkes Road Portland OR 97230	CONTACT:	Kevin Cline
		INQUIRY #:	4560329.2s
LAT/LONG:	45.541264 / 122.48833	DATE:	March 10, 2016 11:09 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SW
1/4 - 1/2 Mile
Higher

OR WELLS **ORW500000004535**

Fid:	4534	Objectid:	4556
Logid:	MULT 1409	Lstupdate:	01/01/1990
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	1000	Sourceorg:	OWRD
Sourceowrd:	USGS WILLGW	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	205		
Latitude:	45.5359164659		
Longitude:	-122.493530729		
Site id:	ORW500000004535		

A2
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40000993872**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453245122283500		
Monloc name:	01N/03E-30AAD		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5456749
Longitude:	-122.4775918	Sourcemap scale:	Not Reported
Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Troutdale Formation		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A3
ENE
1/2 - 1 Mile
Lower

OR WELLS **ORW500000014269**

Fid:	14268	Objectid:	14575
Logid:	MULT 8	Lstupdate:	04/19/2011
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	9999	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453245122283500
Welltag:	0		
Sownum:	0	Obswell:	Not Reported
Recwell:	Not Reported	Obsflagall:	Not Reported
Lsdelev:	0		
Latitude:	45.5456749001		
Longitude:	-122.4775918		
Site id:	ORW500000014269		

B4
ESE **OR WELLS** **ORW500000003688**
1/2 - 1 Mile
Lower

Fid:	3687	Objectid:	3703
Logid:	MULT 1395	Lstupdate:	01/01/1990
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	1000	Sourceorg:	OWRD
Sourceowrd:	USGS WILLGW	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	184		
Latitude:	45.5376203614		
Longitude:	-122.476202255		
Site id:	ORW500000003688		

B5
ESE **FED USGS** **USGS40000993819**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453216122283001		
Monloc name:	01N/03E-30DADD1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5376195
Longitude:	-122.4762027	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	184.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19640623	Welldepth:	389
Welldepth units:	ft	Wellholedepth:	429
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1986-08-22	100.0		1964-08-07	114	

C6
SE
1/2 - 1 Mile
Higher

OR WELLS **ORI500000040200**

Fid:	40199	Well inspe:	0
Physical l:	Not Reported	Inspection:	2005-12-14 00:00:00.000
Startcard :	182991	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	TOSCO CORP.; MARTIN ASSOCIATES (C/O)		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported

Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	80959	Bonded lic:	10432
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1500	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	30
Qtr40:	SE	Qtr160:	SE
Latitude d:	45.53462000	Longitude :	-122.47769000
Gps horizo:	17.80000000	Year const:	2005
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	JJU	Inspecte00:	113341
Wm region:	NW		
Well tag a:	WIRE TO CASING		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	CMP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	JP
Pictures t:	0	Street of :	Not Reported
Street o00:	1545 NE 181ST AVE, GRESHAM		
Last updt :	2005-12-15 17:00:52.000		
Last upd00:	ungerjj	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.53462		
Loongitude:	-122.47769		
Site id:	ORI500000040200		

C7
SE
1/2 - 1 Mile
Higher

OR WELLS **ORI500000041777**

Fid:	41776	Well inspe:	0
Physical l:	Not Reported	Inspection:	2006-06-21 00:00:00.000
Startcard :	184465	Wl county :	MULT
Wl nbr:	83642	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	TOSCO CORP.		
Street:	Not Reported	City:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	82600	Bonded lic:	10432
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1500	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	30
Qtr40:	SE	Qtr160:	SE
Latitude d:	45.53426000	Longitude :	-122.47777000
Gps horizo:	23.20000000	Year const:	2006
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	JJU	Inspecte00:	113341
Wm region:	NW		
Well tag a:	ZIP TIE IN CONCRETE		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	CMP
Location r:	Not Reported	Site visit:	Not Reported

Type of lo:	M	Casing cap:	JP
Pictures t:	0	Street of :	1545 NE 181ST AV
Street o00:	1545 NE 181ST AVE, GRESHAM		
Last updt :	2006-06-22 07:50:56.000		
Last upd00:	ungerjj	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.53426		
Loongitude:	-122.47777		
Site id:	ORI500000041777		

C8
SE
1/2 - 1 Mile
Higher

OR WELLS **ORI500000040202**

Fid:	40201	Well inspe:	0
Physical l:	Not Reported	Inspection:	2005-12-14 00:00:00.000
Startcard :	182989	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	TOSCO CORP.; MARTIN ASSOCIATES (C/O)		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported

Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	80960	Bonded lic:	10432
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1500	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	30
Qtr40:	SE	Qtr160:	SE
Latitude d:	45.53428000	Longitude :	-122.47764000
Gps horizo:	60.00000000	Year const:	2005
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	JJU	Inspecte00:	113341
Wm region:	NW		
Well tag a:	WIRE TO CASING		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	CMP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	JP
Pictures t:	0	Street of :	Not Reported
Street o00:	1545 NE 181ST AVE, GRESHAM		
Last updt :	2005-12-15 17:02:44.000		
Last upd00:	ungerjj	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.53428		
Loongitude:	-122.47764		
Site id:	ORI500000040202		

C9
SE
1/2 - 1 Mile
Higher

OR WELLS **ORI500000040201**

Fid:	40200	Well inspe:	0
Physical l:	Not Reported	Inspection:	2005-12-14 00:00:00.000
Startcard :	182990	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	TOSCO CORP.; MARTIN ASSOCIATES (C/O)		
Street:	Not Reported	City:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	80962	Bonded lic:	10432
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1500	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	30
Qtr40:	SE	Qtr160:	SE
Latitude d:	45.53437000	Longitude :	-122.47750000
Gps horizo:	18.90000000	Year const:	2005
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	JJU	Inspecte00:	113341
Wm region:	NW		
Well tag a:	WIRE TO CASING		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	CMP
Location r:	Not Reported	Site visit:	Not Reported

Type of lo:	M	Casing cap:	JP
Pictures t:	0	Street of :	Not Reported
Street o00:	1545 NE 181ST AVE, GRESHAM		
Last updt :	2005-12-15 17:01:44.000		
Last upd00:	ungerjj	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.53437		
Loongitude:	-122.4775		
Site id:	ORI500000040201		

C10
SE
1/2 - 1 Mile
Higher

OR WELLS **ORI500000040203**

Fid:	40202	Well inspe:	0
Physical l:	Not Reported	Inspection:	2005-12-14 00:00:00.000
Startcard :	182993	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	TOSCO CORP.; MARTIN ASSOCIATES (C/O)		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported

Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	80961	Bonded lic:	10432
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1500	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	30
Qtr40:	SE	Qtr160:	SE
Latitude d:	45.53434000	Longitude :	-122.47735000
Gps horizo:	19.00000000	Year const:	2005
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	JJU	Inspecte00:	113341
Wm region:	NW		
Well tag a:	WIRE TO CASING		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	CMP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	JP
Pictures t:	0	Street of :	Not Reported
Street o00:	1545 NE 181ST AVE, GRESHAM		
Last updt :	2005-12-15 17:03:37.000		
Last upd00:	ungerjj	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.53434		
Loongitude:	-122.47735		
Site id:	ORI500000040203		

11
NNW
1/2 - 1 Mile
Lower

OR WELLS **ORW500000011796**

Fid:	11795	Objectid:	11931
Logid:	MULT 97681	Lstupdate:	05/11/2009
Establby:	DONN MILLER	Xysource:	APPL MAP
Horizerr:	250	Sourceorg:	OWRD
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	91674		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	28		
Latitude:	45.5522812461		

Longitude: -122.492510374
Site id: ORW500000011796

D12
North
1/2 - 1 Mile
Lower

OR WELLS **ORI500000046608**

Fid:	46607	Well inspe:	0
Physical l:	Not Reported	Inspection:	2008-09-25 00:00:00.000
Startcard :	1004851	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	1	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	MCKINSTRY CO LLC		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	RIG ON SITE ON TAX-LOT 311; NO ONE SEEN; DID NOT SEE WELL; DRILL RIG SET UP BUT		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported

Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	Not Reported	Bonded lic:	10067
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	316	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	19
Qtr40:	NE	Qtr160:	SW
Latitude d:	45.55291000	Longitude :	-122.49036000
Gps horizo:	18.00000000	Year const:	2008
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	1
Inspected :	KRB	Inspecte00:	107906
Wm region:	NW		
Well tag a:	Not Reported		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	DIP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	W	Casing cap:	Not Reported
Pictures t:	0	Street of :	Not Reported
Street o00:	16790 NE MASON ST PORTLAND, OR 97230		
Last updt :	2008-09-25 12:03:54.717		
Last upd00:	byrdkr	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.55291		
Loongitude:	-122.49036		
Site id:	ORI500000046608		

D13
North
1/2 - 1 Mile
Lower

OR WELLS **ORW500000011795**

Fid:	11794	Objectid:	11930
Logid:	MULT 97680	Lstupdate:	05/11/2009
Establby:	DONN MILLER	Xysource:	APPL MAP
Horizerr:	250	Sourceorg:	OWRD
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	91673		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	24		
Latitude:	45.5532028866		
Longitude:	-122.489509342		
Site id:	ORW500000011795		

E14
NE
1/2 - 1 Mile
Lower

OR WELLS **ORW500000014273**

Fid:	14272	Objectid:	14579
Logid:	MULT 1276	Lstupdate:	05/16/2012
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453255122282401
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	28		
Latitude:	45.5484526701		
Longitude:	-122.474536299		
Site id:	ORW500000014273		

E15
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000993885**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453255122282401		
Monloc name:	01N/03E-20CC1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5484527
Longitude:	-122.4745363	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19810515	Welldepth:	490
Welldepth units:	ft	Wellholedepth:	523
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1981-05-19	-2	

D16
North
1/2 - 1 Mile
Lower

OR WELLS **ORI500000046609**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fid:	46608	Well inspe:	0
Physical l:	Not Reported	Inspection:	2008-09-25 00:00:00.000
Startcard :	1004850	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	1	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	MCKINSTRY CO LLC		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	RIG ON SITE STILL ON THIS WELL; NO ACCESS TO THE INSIDE OF THE WELL; DRILLER NOT		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	Not Reported	Bonded lic:	10067
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	311	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	19
Qtr40:	NE	Qtr160:	SW

Latitude d:	45.55350000	Longitude :	-122.48967000
Gps horizo:	18.00000000	Year const:	2008
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	1
Inspected :	KRB	Inspecte00:	107906
Wm region:	NW		
Well tag a:	BEING DRILLED		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	DIP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	W	Casing cap:	Not Reported
Pictures t:	0	Street of :	Not Reported
Street o00:	16790 NE MASON ST PORTLAND, OR 97230		
Last updt :	2008-09-25 12:06:24.497		
Last upd00:	byrdkr	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.5535		
Loongitude:	-122.48967		
Site id:	ORI500000046609		

F17
ENE **OR WELLS** **ORI500000047189**
1/2 - 1 Mile
Lower

Fid:	47188	Well inspe:	0
Physical l:	Not Reported	Inspection:	2008-09-23 00:00:00.000
Startcard :	1004908	Wl county :	MULT
Wl nbr:	97158	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	MCMORGAN COMPANY		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported

Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	DRILLER WAS LICENSED FOR WATER WELLS ONLY/INFORMED ROBERT STADELLI OF BOART @ TH		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	89354	Bonded lic:	1523
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1200	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	29
Qtr40:	NW	Qtr160:	NW
Latitude d:	45.54518000	Longitude :	-122.47146000
Gps horizo:	23.00000000	Year const:	2008
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	L R	Inspecte00:	125133
Wm region:	NW		
Well tag a:	Not Reported		
Well tag01:	Not Reported	Depth:	264.0
Static wat:	Not Reported	Status of :	DIP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	Not Reported
Pictures t:	0	Street of :	NE 185TH DRIVE A
Street o00:	NE 185TH DRIVE AND NE SANDY BLVD., PORTLAND, OR		
Last updt :	2008-11-10 09:05:45.340		
Last upd00:	ramseyll	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.54518		
Loongitude:	-122.47146		
Site id:	ORI500000047189		

F18
ENE
1/2 - 1 Mile
Lower

OR WELLS **ORI500000013598**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fid:	13597	Well inspe:	0
Physical l:	Not Reported	Inspection:	2009-03-02 00:00:00.000
Startcard :	199849	Wl county :	MULT
Wl nbr:	98184	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	MCMORGAN CO.		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	DID NOT LOCATE WELL.		
Work new:	0	Work deepe:	0
Work conve:	0	Work alter:	1
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	Not Reported	Bonded lic:	10306
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1200	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	29
Qtr40:	NW	Qtr160:	NW

Latitude d:	45.54532000	Longitude :	-122.47145000
Gps horizo:	18.00000000	Year const:	Not Reported
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	L R	Inspecte00:	125133
Wm region:	NW		
Well tag a:	Not Reported		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	Not Reported
Pictures t:	0	Street of :	NE 185TH DR AND
Street o00:	NE 185TH DR AND NE SANDY BLVD, PORTLAND		
Last updt :	2009-03-06 16:13:12.200		
Last upd00:	ramseyll	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.54532		
Loongitude:	-122.47145		
Site id:	ORI500000013598		

19
NE
1/2 - 1 Mile
Lower

OR WELLS **ORI500000025101**

Fid:	25100	Well inspe:	0
Physical l:	Not Reported	Inspection:	2001-11-29 00:00:00.000
Startcard :	133340	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	PDC; IN NE AIRPORT WAY W BOUND; 500 FT E OF NE RIVERSIDE PARKWAY		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported

Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	5285	Bonded lic:	10011
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	Not Reported	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	19
Qtr40:	NE	Qtr160:	SW
Latitude d:	45.55148000	Longitude :	-122.47728000
Gps horizo:	17.00000000	Year const:	2001
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	N	Previous i:	0
Inspected :	KRB	Inspecte00:	107906
Wm region:	NW		
Well tag a:	BANDED		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	Not Reported	Casing cap:	Not Reported
Pictures t:	0	Street of :	Not Reported
Street o00:	Not Reported		
Last updt :	2000-01-01 00:00:00.000		
Last upd00:	byrdkr	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.55148		
Loongitude:	-122.47728		
Site id:	ORI500000025101		

G20
NE
1/2 - 1 Mile
Lower

OR WELLS **ORW500000014272**

Fid:	14271	Objectid:	14578
Logid:	MULT 1267	Lstupdate:	05/16/2012
Establby:	KARL WOZNIAK	Xysource:	UNKNOWN
Horizerr:	100	Sourceorg:	USGS
Sourceowrd:	NWIS	Waypoint:	453255122281901
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	28		
Latitude:	45.5484526699		
Longitude:	-122.473147401		
Site id:	ORW500000014272		

G21
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000993884**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453255122281901		
Monloc name:	01N/03E-20CCCD2		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5484527
Longitude:	-122.4731474	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	18.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19801119	Welldepth:	498
Welldepth units:	ft	Wellholedepth:	505
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-04-11	102		1988-04-12	103	
1987-03-16	102		1980-11-19	-2	

H22
ENE
1/2 - 1 Mile
Lower

OR WELLS **ORI500000031281**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fid:	31280	Well inspe:	0
Physical l:	Not Reported	Inspection:	2003-08-21 00:00:00.000
Startcard :	153077	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	BOEING CO., 19000 NE SANDY BLVD., GRESHAM		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	8" EXTRACTION WELL IN 57" DEEP CEMENT VAULT, CASING HEIGHT 17", SC# NOT ATTACHED		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	63888	Bonded lic:	10067
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1400	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	29
Qtr40:	SE	Qtr160:	NW

Latitude d:	45.54481000	Longitude :	-122.46967000
Gps horizo:	22.00000000	Year const:	2003
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	Y	Previous i:	1
Inspected :	DIP	Inspecte00:	108006
Wm region:	NW		
Well tag a:	BANDED TO CASING		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	Not Reported
Pictures t:	0	Street of :	Not Reported
Street o00:	Not Reported		
Last updt :	2000-01-01 00:00:00.000		
Last upd00:	pedersdi	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.54481		
Loongitude:	-122.46967		
Site id:	ORI500000031281		

H23
ENE
1/2 - 1 Mile
Lower

OR WELLS **ORI500000049931**

Fid:	49930	Well inspe:	0
Physical l:	Not Reported	Inspection:	2010-05-19 00:00:00.000
Startcard :	1009300	Wl county :	Not Reported
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	0
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	WIN
Inspecti01:	ROC	Witnesses:	Not Reported
Name owner:	P10020-4167,		
Street:	19000	City:	GRESH
State:	OR	Zip:	97030
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	1	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	0
Rough log :	0	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	0
Protective:	0	Well locke:	0
Consultant:	0	Water in v:	0
Seal test :	Not Reported	Samples ta:	0
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	0	Access por:	0
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	0.00
Tape missi:	0.00	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	0	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported

Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	0	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	1	Work exist:	0
Work other:	Not Reported	Drill rota:	0
Drill ro00:	0	Drill cabl:	0
Drill ca00:	0	Drill reve:	0
Drill re00:	0	Drill auge:	0
Drill push:	0	Drill hand:	0
Drill holl:	0	Drill soni:	0
Drill othe:	Not Reported	Use domest:	0
Use irriga:	0	Use commun:	0
Use indust:	0	Use livest:	0
Use dewate:	0	Use monito:	1
Use therma:	0	Use inject:	0
Use piezom:	0	Use observ:	0
Use recove:	0	Use other:	Not Reported
Bentonite :	0	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	Not Reported	Bonded lic:	10357
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	500	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	29
Qtr40:	SE	Qtr160:	NW
Latitude d:	45.54401600	Longitude :	-122.46900100
Gps horizo:	6.00000000	Year const:	Not Reported
Date const:	2010-	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	DMP	Inspecte00:	108008
Wm region:	NW		
Well tag a:	Not Reported		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	Not Reported
Pictures t:	0	Street of :	Not Reported
Street o00:	19000 NE SANDY BLVD, GRESHAM, OR 97030		
Last updt :	2011-01-13 13:59:11.300		
Last upd00:	byrdkr	Rec creati:	2010-06-15 14:28:07.327
Rec crea00:	poedm		
Latitude:	45.544016		
Loongitude:	-122.469001		
Site id:	ORI500000049931		

H24
ENE
1/2 - 1 Mile
Lower

OR WELLS **ORI500000047201**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fid:	47200	Well inspe:	0
Physical l:	Not Reported	Inspection:	2008-09-23 00:00:00.000
Startcard :	199839	Wl county :	MULT
Wl nbr:	Not Reported	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	Not Reported
Property o:	Not Reported	Inspecti00:	Not Reported
Special st:	0	Title:	Not Reported
Inspecti01:	Not Reported	Witnesses:	Not Reported
Name owner:	BOEING C/O PROPERTY TAX DEPT		
Street:	Not Reported	City:	Not Reported
State:	Not Reported	Zip:	Not Reported
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	Not Reported	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	Not Reported
Rough log :	Not Reported	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	Not Reported
Protective:	Not Reported	Well locke:	Not Reported
Consultant:	Not Reported	Water in v:	Not Reported
Seal test :	Not Reported	Samples ta:	Not Reported
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	Not Reported	Access por:	Not Reported
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	Not Reported	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	INJECTION WELL		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	Not Reported
Drill ro00:	Not Reported	Drill cabl:	Not Reported
Drill ca00:	Not Reported	Drill reve:	Not Reported
Drill re00:	Not Reported	Drill auge:	Not Reported
Drill push:	Not Reported	Drill hand:	Not Reported
Drill holl:	Not Reported	Drill soni:	Not Reported
Drill othe:	Not Reported	Use domest:	Not Reported
Use irriga:	Not Reported	Use commun:	Not Reported
Use indust:	Not Reported	Use livest:	Not Reported
Use dewate:	Not Reported	Use monito:	Not Reported
Use therma:	Not Reported	Use inject:	Not Reported
Use piezom:	Not Reported	Use observ:	Not Reported
Use recove:	Not Reported	Use other:	Not Reported
Bentonite :	Not Reported	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	95861	Bonded lic:	10357
Unbonded l:	Not Reported	Bonded dri:	Not Reported
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1400	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	29
Qtr40:	NW	Qtr160:	NW

Latitude d:	45.54428000	Longitude :	-122.46902000
Gps horizo:	16.00000000	Year const:	2008
Date const:	Not Reported	Date con00:	Not Reported
Deficienci:	U	Previous i:	0
Inspected :	L R	Inspecte00:	125133
Wm region:	NW		
Well tag a:	Not Reported		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	DIP
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	Not Reported
Pictures t:	0	Street of :	Not Reported
Street o00:	19000 NE SANDY BLVDGRESHAM OR		
Last updt :	2008-11-10 09:38:58.607		
Last upd00:	ramseyll	Rec creati:	2009-06-01 06:51:00.000
Rec crea00:	OWRD\migrate		
Latitude:	45.54428		
Loongitude:	-122.46902		
Site id:	ORI500000047201		

25
East
1/2 - 1 Mile
Lower

OR WELLS **ORI500000049930**

Fid:	49929	Well inspe:	0
Physical l:	Not Reported	Inspection:	2010-05-19 00:00:00.000
Startcard :	1009299	Wl county :	MULT
Wl nbr:	102296	Startcar00:	10092
Well tag n:	10285	No log:	0
Property o:	Not Reported	Inspecti00:	CMP
Special st:	0	Title:	WIN
Inspecti01:	NEW	Witnesses:	Not Reported
Name owner:	, P10020-4167		
Street:	19000	City:	GRESH
State:	OR	Zip:	97030
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	0	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	0
Rough log :	0	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	0
Protective:	0	Well locke:	1
Consultant:	0	Water in v:	1
Seal test :	Not Reported	Samples ta:	0
Casing dia:	2.00	Csg above :	0.00
Csg gauge:	40.00	Borehole d:	8.00
Dedicated :	0	Access por:	0
Access p00:	Not Reported	Measuring :	0.00
Measurin00:	0	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	0.00
Tape missi:	0.00	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	0	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported

Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	1	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	0	Work exist:	0
Work other:	Not Reported	Drill rota:	0
Drill ro00:	0	Drill cabl:	0
Drill ca00:	0	Drill reve:	0
Drill re00:	0	Drill auge:	0
Drill push:	0	Drill hand:	0
Drill holl:	0	Drill soni:	0
Drill othe:	SONIC	Use domest:	0
Use irriga:	0	Use commun:	0
Use indust:	0	Use livest:	0
Use dewate:	0	Use monito:	1
Use therma:	0	Use inject:	0
Use piezom:	0	Use observ:	0
Use recove:	0	Use other:	Not Reported
Bentonite :	0	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	102850	Bonded lic:	10357
Unbonded l:	10329	Bonded dri:	TERRE
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	500	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	29
Qtr40:	SE	Qtr160:	NW
Latitude d:	45.54381500	Longitude :	-122.46887600
Gps horizo:	6.00000000	Year const:	Not Reported
Date const:	2010-	Date con00:	2010-
Deficienci:	U	Previous i:	0
Inspected :	DMP	Inspecte00:	108008
Wm region:	NW		
Well tag a:	quick tie		
Well tag01:	DRL	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	JPG
Pictures t:	0	Street of :	19000 NE SANDY B
Street o00:	19000 NE SANDY BLVD, GRESHAM, OR 97030		
Last updt :	2010-06-15 14:17:11.687		
Last upd00:	poedm	Rec creati:	2010-06-15 14:16:13.390
Rec crea00:	poedm		
Latitude:	45.543815		
Loongitude:	-122.468876		
Site id:	ORI500000049930		

H26
ENE
1/2 - 1 Mile
Lower

OR WELLS **ORI500000049928**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Fid:	49927	Well inspe:	0
Physical l:	Not Reported	Inspection:	2010-05-19 00:00:00.000
Startcard :	1009534	Wl county :	MULT
Wl nbr:	102048	Startcar00:	Not Reported
Well tag n:	Not Reported	No log:	0
Property o:	Not Reported	Inspecti00:	CMP
Special st:	0	Title:	WIN
Inspecti01:	ROC	Witnesses:	Not Reported
Name owner:	BOEING COMPANY		
Street:	PO BO	City:	SEATT
State:	WA	Zip:	98124
Phone home:	Not Reported	Phone comp:	Not Reported
Gps on wel:	0	Distance t:	Not Reported
Bearing to:	Not Reported	Drilling m:	Not Reported
Use of wel:	Not Reported	Drilling00:	0
Rough log :	0	Well tag r:	Not Reported
Monitoring:	Not Reported	Monitori00:	0
Protective:	0	Well locke:	0
Consultant:	0	Water in v:	0
Seal test :	Not Reported	Samples ta:	0
Casing dia:	Not Reported	Csg above :	Not Reported
Csg gauge:	Not Reported	Borehole d:	Not Reported
Dedicated :	0	Access por:	0
Access p00:	Not Reported	Measuring :	Not Reported
Measurin00:	Not Reported	Depth belo:	Not Reported
Depth be00:	Not Reported	Tape hold:	Not Reported
Tape missi:	Not Reported	Tape cut:	Not Reported
Water leve:	Not Reported	Water le00:	Not Reported
Cascading :	0	Pump type:	Not Reported
Pump make:	Not Reported	Pump hp:	Not Reported
Flowmeter :	Not Reported	Flowmete00:	Not Reported
Flowmete01:	Not Reported	Flowmete02:	Not Reported
Associated:	Not Reported	Nbr of hou:	Not Reported
Deficiency:	Not Reported		
Inspecti02:	Not Reported		
Work new:	0	Work deepe:	0
Work conve:	0	Work alter:	0
Work aband:	1	Work exist:	0
Work other:	Not Reported	Drill rota:	0
Drill ro00:	0	Drill cabl:	0
Drill ca00:	0	Drill reve:	0
Drill re00:	0	Drill auge:	0
Drill push:	0	Drill hand:	0
Drill holl:	0	Drill soni:	0
Drill othe:	ABAND	Use domest:	0
Use irriga:	0	Use commun:	0
Use indust:	0	Use livest:	0
Use dewate:	0	Use monito:	1
Use therma:	0	Use inject:	0
Use piezom:	0	Use observ:	0
Use recove:	0	Use other:	Not Reported
Bentonite :	0	Conductivi:	Not Reported
Conducti00:	Not Reported	Measuremen:	Not Reported
Well tag00:	Not Reported	Bonded lic:	10563
Unbonded l:	1772	Bonded dri:	FORD,
Unbonded d:	Not Reported	County cod:	MULT
Tax lot:	1400	Township:	1
Township c:	N	Range:	3
Range char:	E	Sctn:	29
Qtr40:	NE	Qtr160:	NW

Latitude d:	45.54470000	Longitude :	-122.46883700
Gps horizo:	9.00000000	Year const:	Not Reported
Date const:	2010-	Date con00:	2010-
Deficienci:	U	Previous i:	0
Inspected :	DMP	Inspecte00:	108008
Wm region:	NW		
Well tag a:	Not Reported		
Well tag01:	Not Reported	Depth:	Not Reported
Static wat:	Not Reported	Status of :	Not Reported
Location r:	Not Reported	Site visit:	Not Reported
Type of lo:	M	Casing cap:	Not Reported
Pictures t:	0	Street of :	19000 NE SANDY B
Street o00:	19000 NE SANDY BLVD GRESHAM, OR 97230		
Last updt :	2010-06-15 13:13:15.780		
Last upd00:	poedm	Rec creati:	2010-06-15 13:13:15.780
Rec crea00:	poedm		
Latitude:	45.5447		
Loongitude:	-122.468837		
Site id:	ORI500000049928		

I27
North
1/2 - 1 Mile
Lower

OR WELLS **ORW500000011061**

Fid:	11060	Objectid:	11185
Logid:	MULT 1259	Lstupdate:	02/15/2008
Establby:	KARL WOZNIAK	Xysource:	LAND SURVEY
Horizerr:	5	Sourceorg:	PORTLAND WATER BUREAU
Sourceowrd:	GWATER	Waypoint:	Not Reported
Welltag:	0		
Sownum:	0	Obswell:	9
Recwell:	9	Obsflagall:	Not Reported
Lsdelev:	27.1700000762939		
Latitude:	45.5556711463		
Longitude:	-122.488803399		
Site id:	ORW500000011061		

I28
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000993943**

Org. Identifier:	USGS-OR		
Formal name:	USGS Oregon Water Science Center		
Monloc Identifier:	USGS-453321122291101		
Monloc name:	01N/03E-19BDDC2		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	17090012	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	45.5556748
Longitude:	-122.487592	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	24.
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19820322	Welldepth:	490
Welldepth units:	ft	Wellholedepth:	495
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-04-06	-0.20		1988-04-07	8.10	
1982-03-22	-3				

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
97230	33	27.4	0.5	3.6	7

Federal EPA Radon Zone for MULTNOMAH County: 2

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 MULTNOMAH COUNTY, OR

Number of sites tested: 33

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.530 pCi/L	91%	9%	0%
Basement	2.630 pCi/L	57%	43%	0%

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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 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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Oregon
John A. Kitzhaber, M.D., Governor

Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

October 12, 2001

KURT ANDERSON
REYNOLDS SCHOOL DISTRICT #7
1204 NE 201ST AVE
FAIRVIEW OR 97024

Re: WILKES ELEMENTARY SCHOOL
File No.: 26-01-6719

Dear Kurt Anderson:

The Department of Environmental Quality has received a report and PBS Environmental certification concerning the heating oil underground storage tank (UST) assessment and/or cleanup conducted at I7020 WILKES RD, in PORTLAND, Oregon.

PBS Environmental was licensed to provide heating oil tank services and has certified that the cleanup has met the Department's requirements. The Department has registered this report and certification and closed its file on the project.

The decision to register the report and certification and to close the Department's file will no longer apply if new or undisclosed facts show that the project does not comply with the rules governing heating oil tank cleanups.

We recommend that a copy of all information associated with the decommissioning be kept with the permanent property records.

Your efforts to comply with Oregon's environmental rules and regulations to ensure that your heating oil tank has been adequately addressed have been appreciated. Proper decommissioning and cleanup helps ensure protection of the environment from future heating oil tank leaks and ensures that the heating oil does not adversely impact human health or the environment. If you have any questions, please feel free to contact me at (503) 229-5474.

Sincerely,

Rick Silverman for Andree

Andree Pollock, Manager
UST Cleanup and Compliance Section

cc: Contractor

APPENDIX C



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02

APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
1935

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:48 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HA01.dwg | Layout: 1935



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02

APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
1948

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:48 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HA01.dwg | Layout: 1948



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

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GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**HISTORICAL AERIAL PHOTOGRAPH 1951**
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:48 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HA01.dwg | Layout: 1951



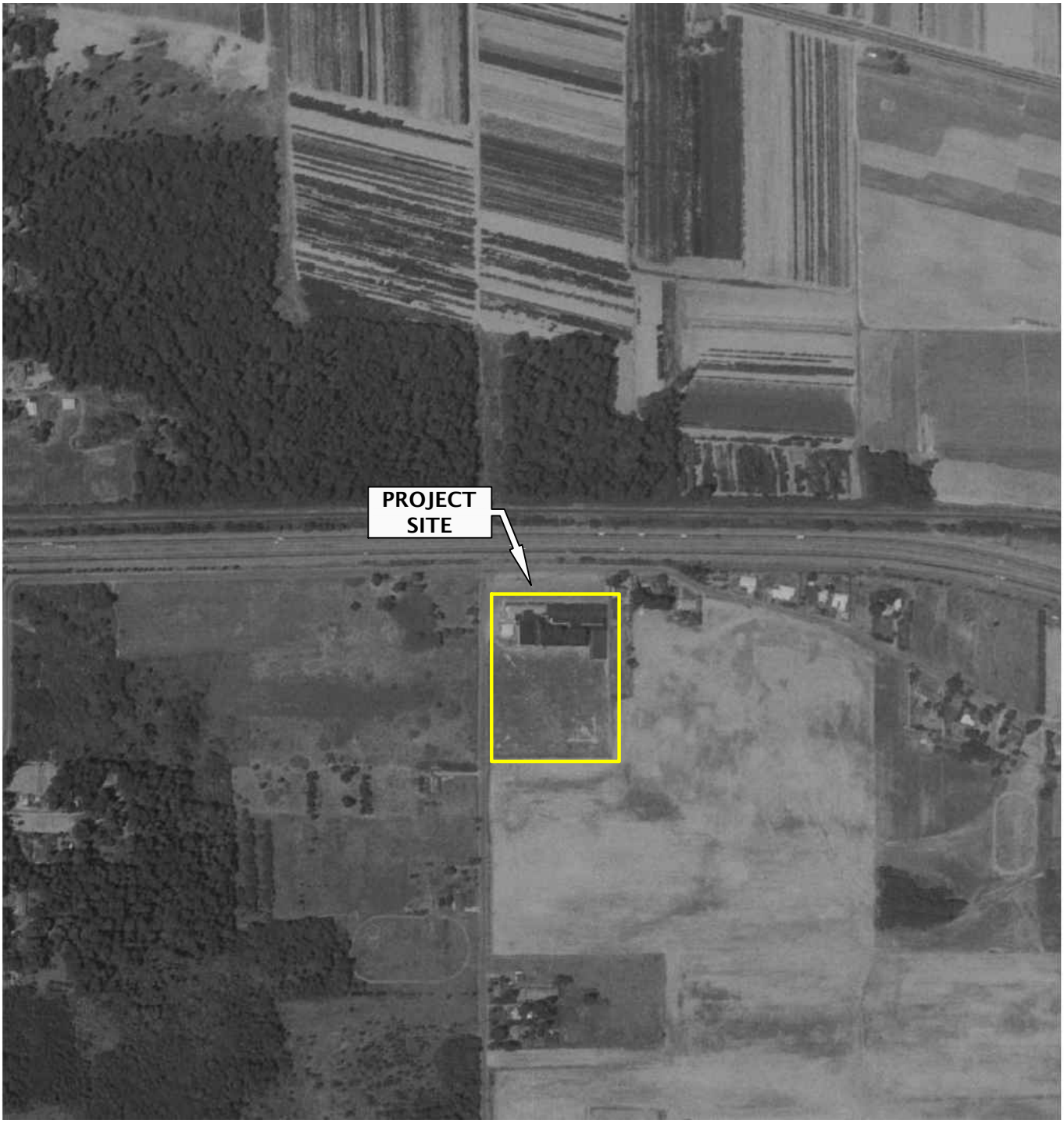
PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**HISTORICAL AERIAL PHOTOGRAPH 1960**
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:49 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HA01.dwg | Layout: 1960



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02

APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
1970

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:49 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HA01.dwg | Layout: 1970



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02

APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
1981

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:49 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HA01.dwg | Layout: 1981



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**HISTORICAL AERIAL PHOTOGRAPH 1994**
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:49 PM
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PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**HISTORICAL AERIAL PHOTOGRAPH 2005**
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:50 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HA01.dwg | Layout: 2005



PROJECT SITE BOUNDARIES ARE APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

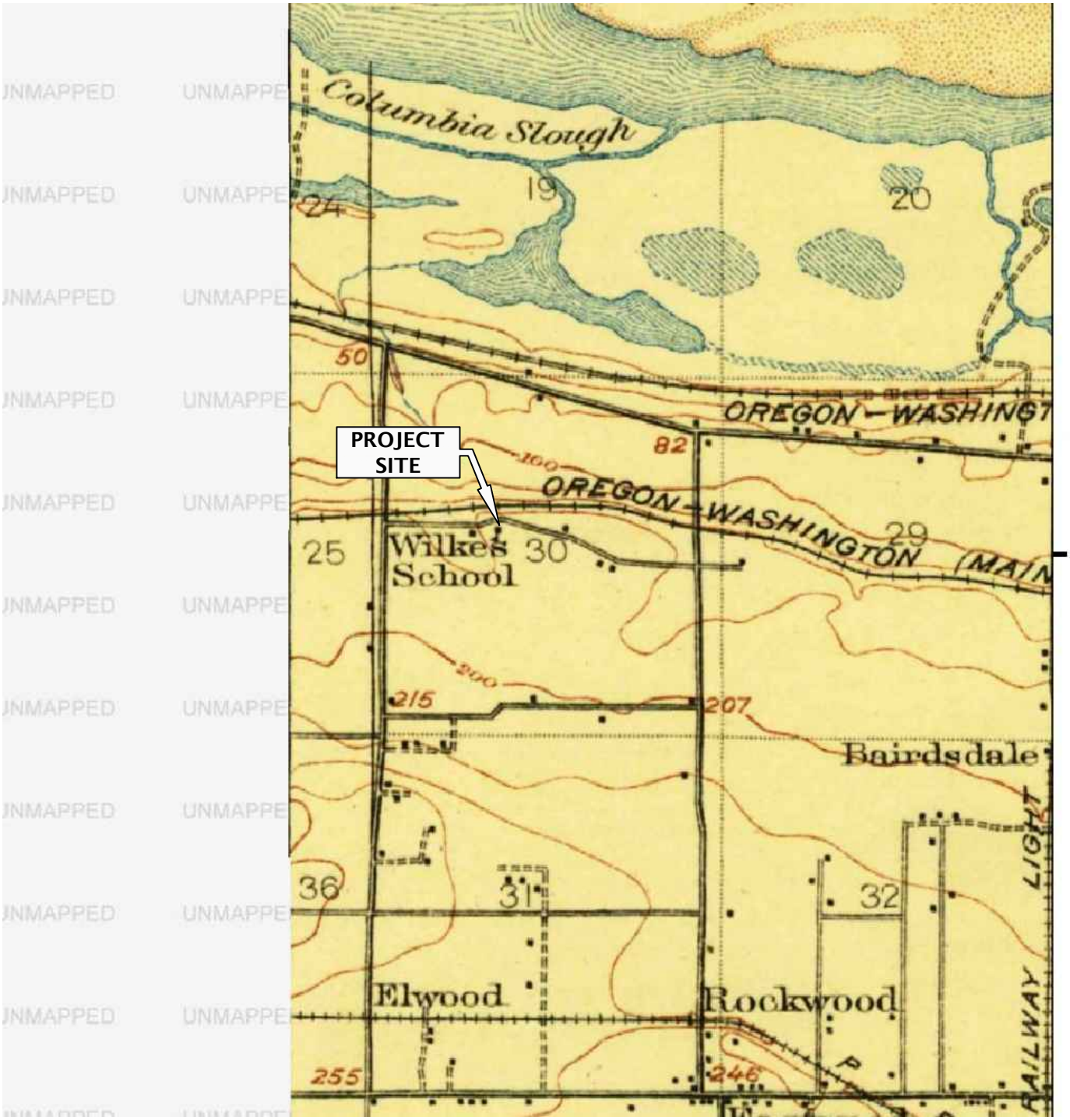
REYNOLDSSD-5-02

APRIL 2016

HISTORICAL AERIAL PHOTOGRAPH
2011

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:50 PM
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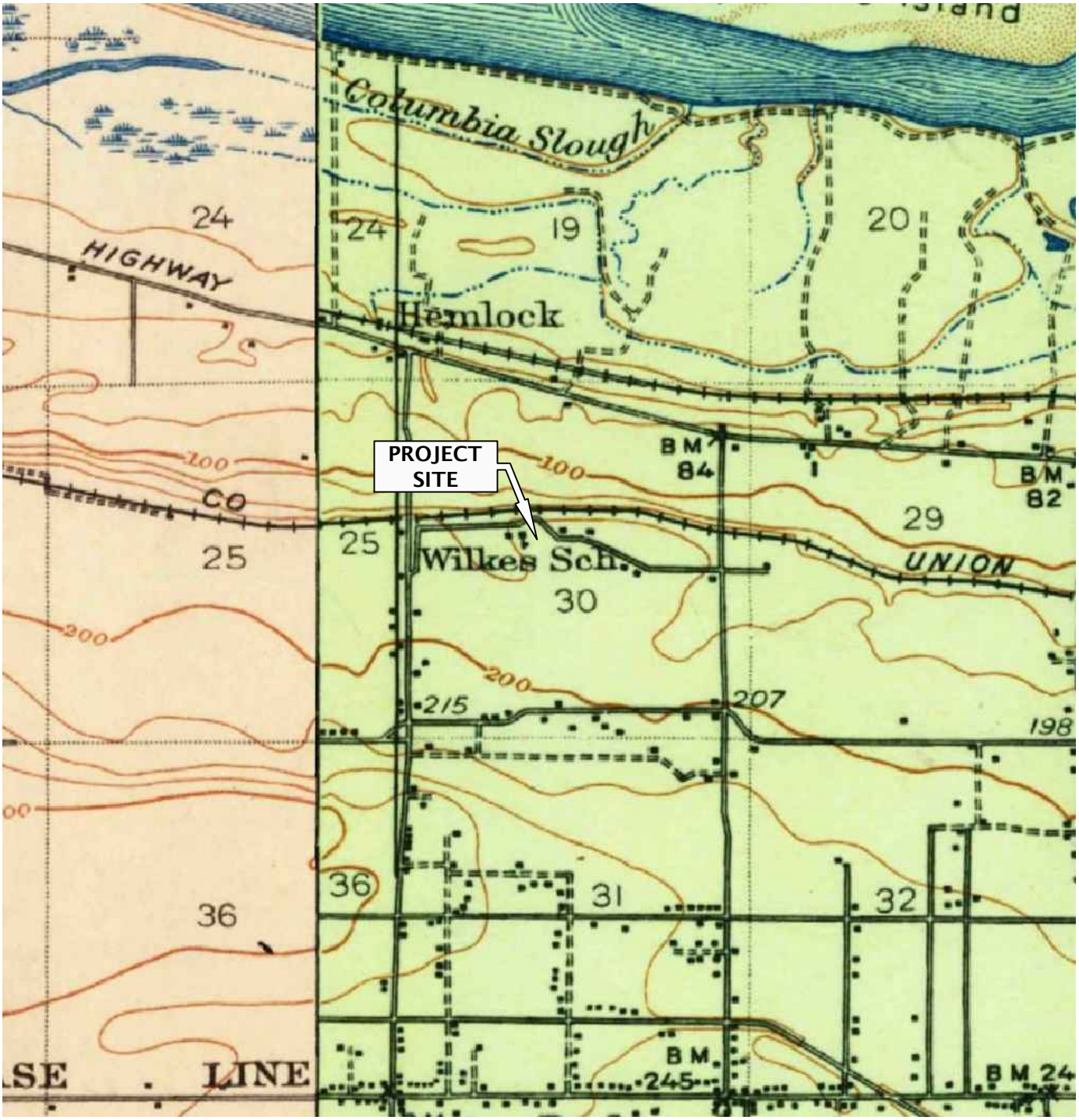
PROJECT SITE LOCATION IS APPROXIMATE.

N

GeoDesign Inc
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**HISTORICAL TOPOGRAPHIC MAP 1918**
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:57 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 1918

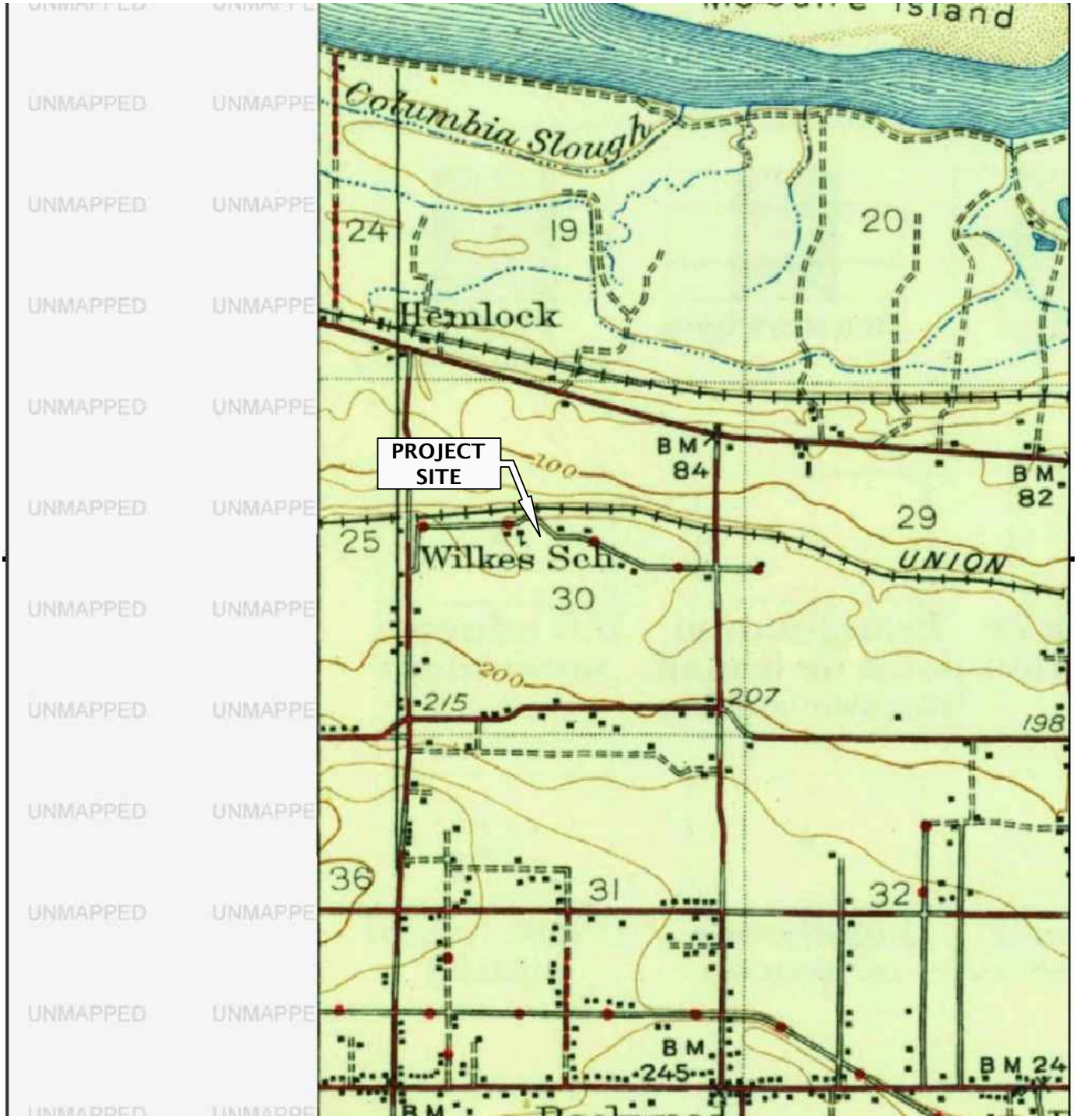


PROJECT SITE LOCATION IS APPROXIMATE.

N

GEODESIGN INC 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSSD-5-02	**HISTORICAL TOPOGRAPHIC MAP 1940-1941**
	APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:57 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 1940-1941



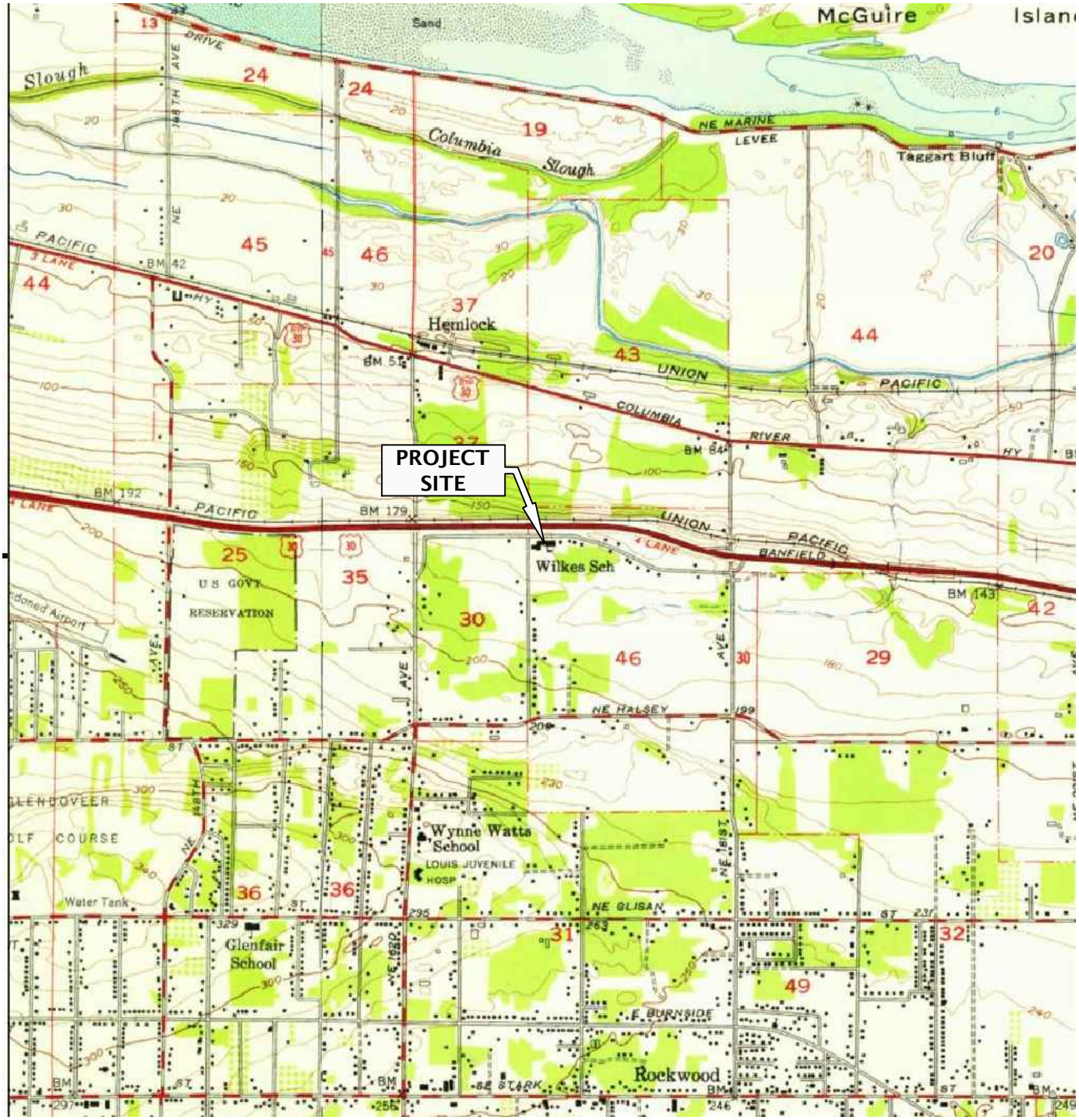
PROJECT SITE LOCATION IS APPROXIMATE.

N

GeoDesign Inc
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**HISTORICAL TOPOGRAPHIC MAP 1942**
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:57 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 1942



PROJECT SITE LOCATION IS APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

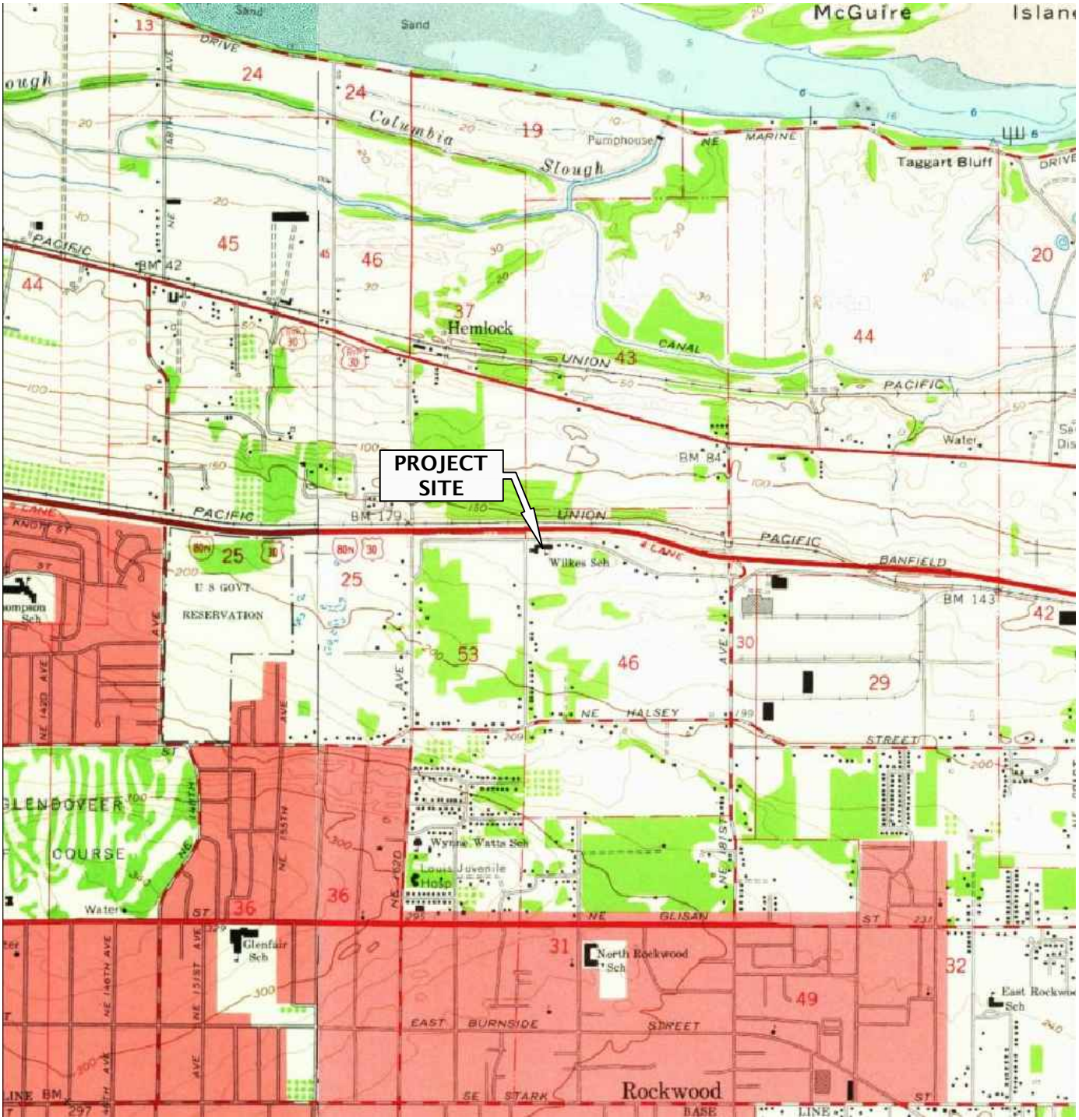
REYNOLDSSD-5-02

APRIL 2016

HISTORICAL TOPOGRAPHIC MAP
1954

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:57 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 1954



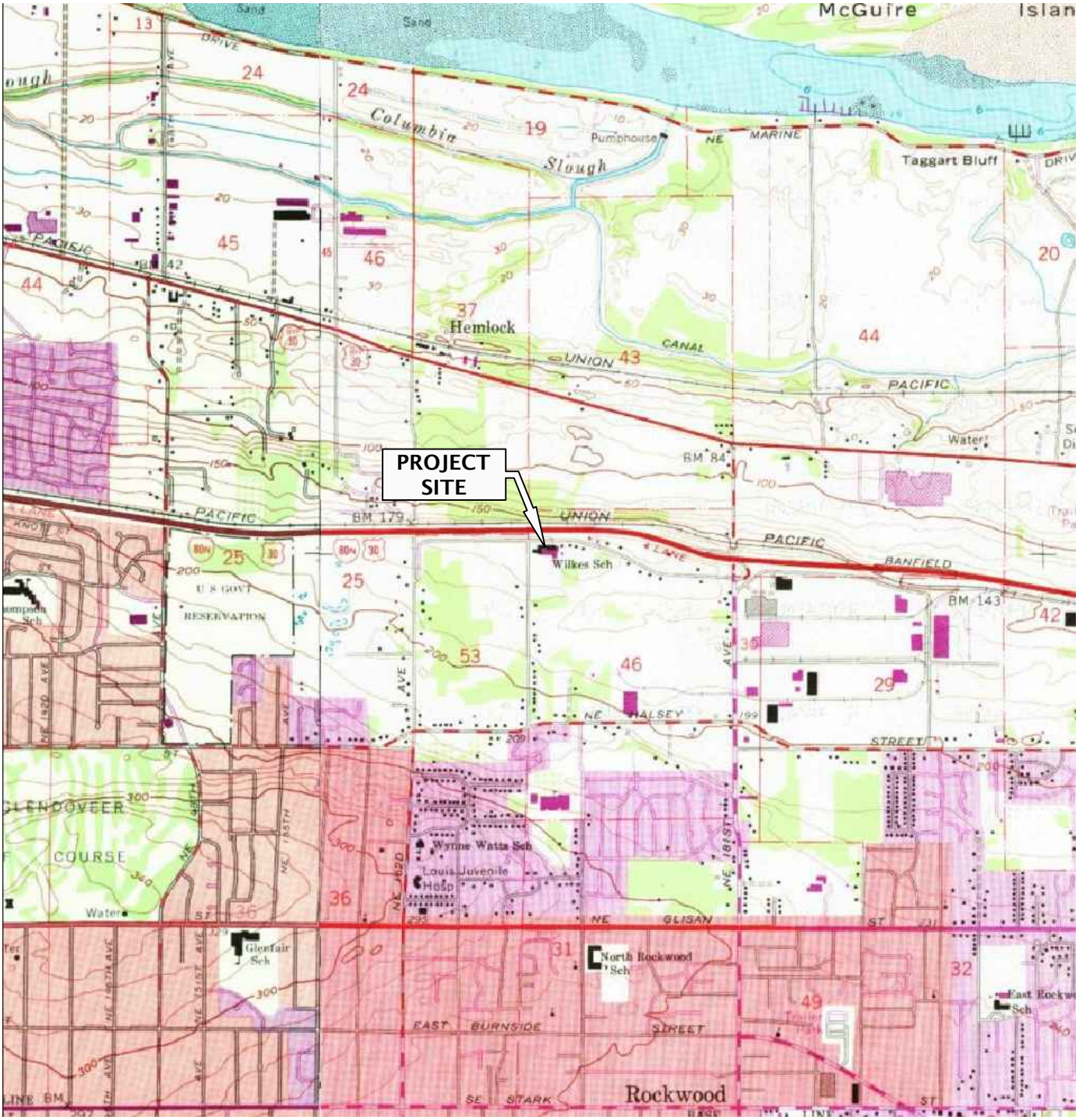
PROJECT SITE LOCATION IS APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**HISTORICAL TOPOGRAPHIC MAP 1961**
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:58 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 1961

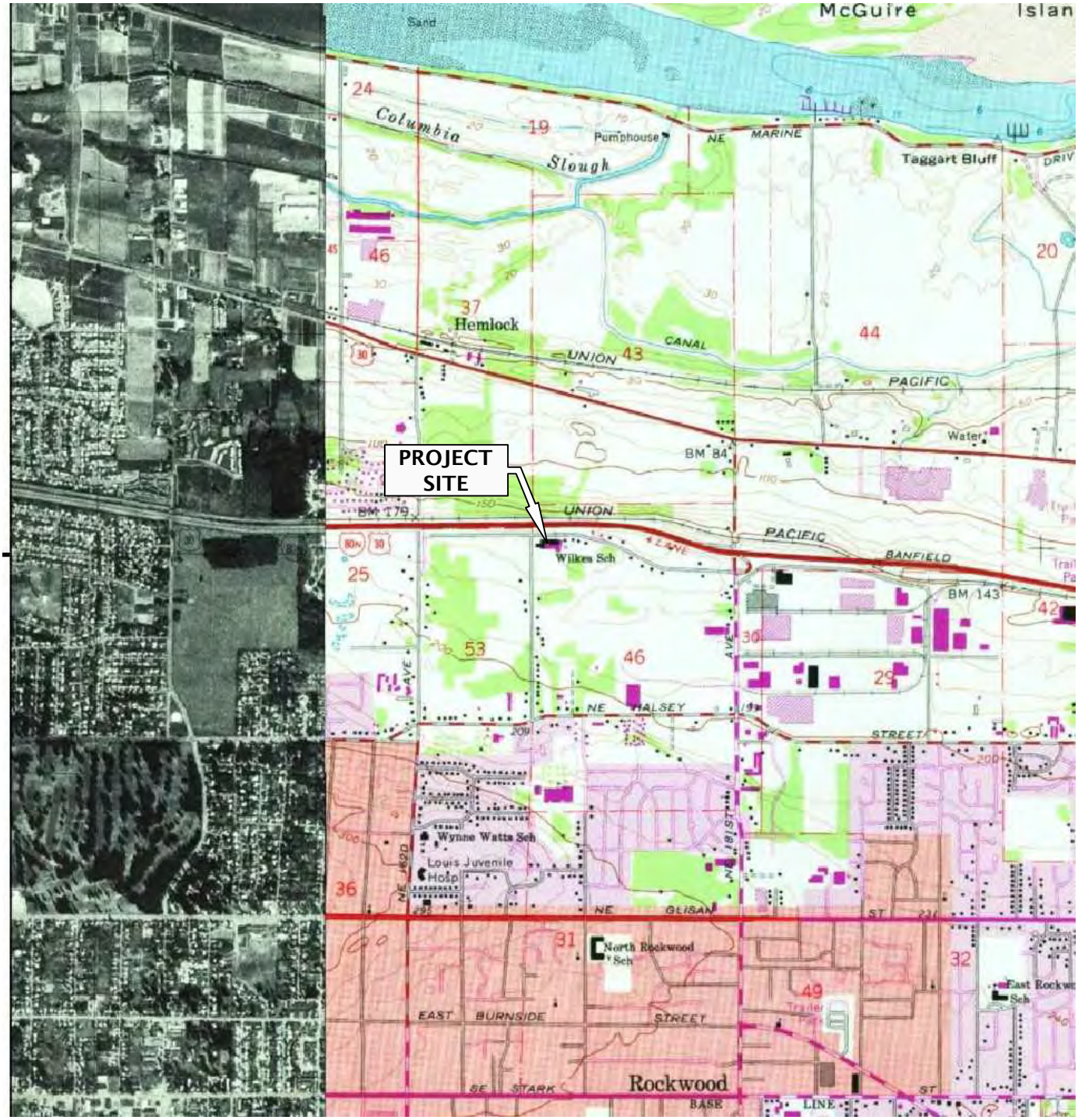


PROJECT SITE LOCATION IS APPROXIMATE.

N

GeoDesign Inc 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSSD-5-02	**HISTORICAL TOPOGRAPHIC MAP 1970**
	APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:58 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 1970



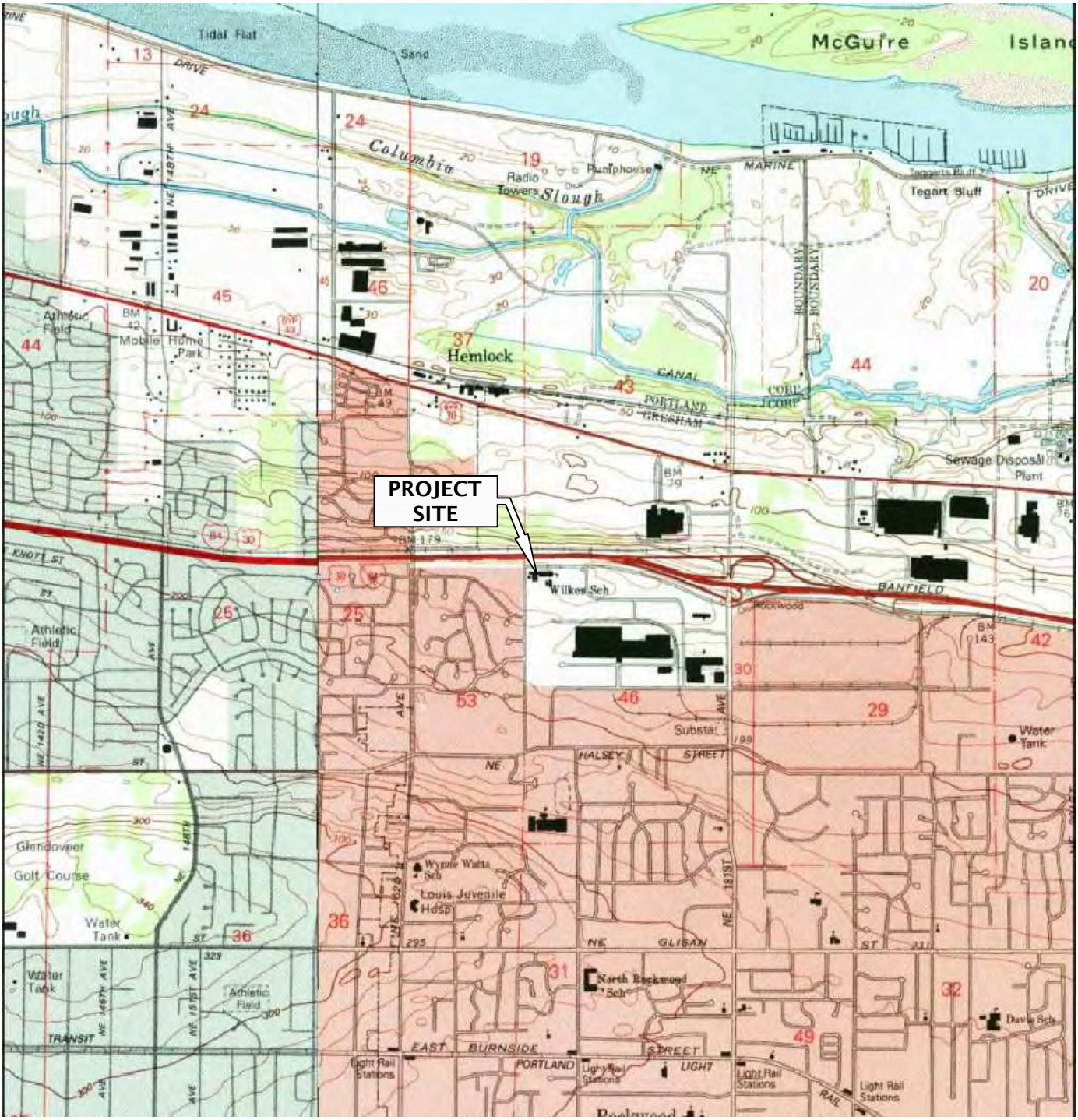
PROJECT SITE LOCATION IS APPROXIMATE.

N

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-02	**HISTORICAL TOPOGRAPHIC MAP 1975**
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:58 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 1975



PROJECT SITE LOCATION IS APPROXIMATE.

N

GEODESIGN INC 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSSD-5-02	**HISTORICAL TOPOGRAPHIC MAP 1995-1996**
	APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:58 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 1995-1996



PROJECT SITE LOCATION IS APPROXIMATE.

N

GeoDesign Inc 15575 SW Sequoia Parkway - Suite 100 Portland OR 97224 Off 503.968.8787 Fax 503.968.3068	REYNOLDSSD-5-02	**HISTORICAL TOPOGRAPHIC MAP 2013-2014**
	APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR

Printed By: aday | Print Date: 4/5/2016 4:03:59 PM
File Name: J:\M-R\reynoldssd\reynoldssd-5\reynoldssd-5-02\Figures\CAD\ReynoldsSD-5-02-HT01.dwg | Layout: 2013-2014

Wilkes Elementary School
17020 NE Wilkes Road
Portland, OR 97230

Inquiry Number: 4560329.5
March 09, 2016

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

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

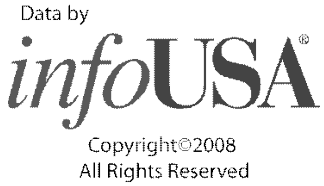
Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1924 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
2003	Cole Information Services	-	X	X	-
1998	Cole Information Services	-	-	-	-
1993	Cole Information Services	-	-	-	-
1988	Cole Information Services	-	-	-	-
1985	R. L. Polk and Co. Publishers	X	-	X	X
1981	R.L. Polk Co. Publishers	-	-	-	-
1980	R.L. Polk Co. Publishers	X	X	X	X
1977	R.L. Polk Co. Publishers	X	X	X	X
1975	R. L. Polk and Co. Publishers	-	-	-	-
1970	R.L.Polk Co.	X	X	X	X
1967	R.L.Polk Co.	X	X	X	X
1965	R.L.Polk Co.	-	-	-	-
1960	R. L. Polk Co. Publishers	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1955	R. L. Polk Co. Publishers	-	-	-	-
1950	R. L. Polk Co. Publisher	-	-	-	-
1946	The Pacific Telephone and Telegraph Company	-	-	-	-
1940	R.L. Polk Co., Inc.	-	-	-	-
1935	R.L. Polk Co., Inc.	-	-	-	-
1930	R.L. Polk Co., Inc.	-	-	-	-
1924	R.L. Polk Co., Inc.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

17020 NE Wilkes Road
Portland, OR 97230

FINDINGS DETAIL

Target Property research detail.

NE WILKES RD

17020 NE WILKES RD

Year	Uses	Source	
1985	Wilkes Elementary School	R. L. Polk and Co. Publishers	Image pg. A1
1980	Wilkes Elementary School	R.L. Polk Co. Publishers	Image pg. A2
1970	Wilkes Elementary School	R.L.Polk Co.	Image pg. A4
1967	WILKES ELEMENTARY SCHOOL	R.L.Polk Co.	Image pg. A5

WILKES RD NE

17020 WILKES RD NE

Year	Uses	Source	
1977	Wilkes Eementary School	R.L. Polk Co. Publishers	Image pg. A3

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

NE 169TH AVE

2544 NE 169TH AVE

Year	Uses	Source	
1967	WILKES ELEMENTARY SCH MUS RM	R.L.Polk Co.	Image pg. A6

NE SACRAMENTO ST

17200 NE SACRAMENTO ST

Year	Uses	Source
2008	INTL BROTHERHOOD OF ELECTRICAL	Cole Information Services
2003	INTERNATIONAL BROTHERHOOD	Cole Information Services

17201 NE SACRAMENTO ST

Year	Uses	Source
2008	CHRISTIAN COPYRIGHT LICENSING	Cole Information Services
	CCLI	Cole Information Services
2003	SUSAN BLOMGREN	Cole Information Services

NE WILKES RD

17020 NE WILKES RD

Year	Uses	Source
2013	REYNOLDS SCHOOL DISTRICT	Cole Information Services
2003	SCHOOLS PUBLIC RYNLD SCHL DIST	Cole Information Services
	REYNOLDS SCHOOL DIST NO OPRTN	Cole Information Services

17038 NE WILKES RD

Year	Uses	Source	
1980	Vacant	R.L. Polk Co. Publishers	Image pg. A2
1970	Chilcote Dan E	R.L.Polk Co.	Image pg. A4
1967	CHILCOTE DAN E	R.L.Polk Co.	Image pg. A5

17100 NE WILKES RD

Year	Uses	Source	
1970	Butzin Don E	R.L.Polk Co.	Image pg. A4
1967	BUTZIN DON E	R.L.Polk Co.	Image pg. A5

FINDINGS

17130 NE WILKES RD

Year	Uses	Source	
1970	Me Givern Thos L	R.L.Polk Co.	Image pg. A4
1967	DAVIDSON LOVAT G	R.L.Polk Co.	Image pg. A5

17215 NE WILKES RD

Year	Uses	Source	
1970	Johnson John W	R.L.Polk Co.	Image pg. A4
1967	JOHNSON JOHN W	R.L.Polk Co.	Image pg. A5

17225 NE WILKES RD

Year	Uses	Source	
1970	Linthorst Wm A	R.L.Polk Co.	Image pg. A4
1967	VACANT	R.L.Polk Co.	Image pg. A5

17321 NE WILKES RD

Year	Uses	Source	
1980	Mitchell Fred	R.L. Polk Co. Publishers	Image pg. A2
1970	Gaines Ray B	R.L.Polk Co.	Image pg. A4
1967	GAINES RAY B	R.L.Polk Co.	Image pg. A5

17331 NE WILKES RD

Year	Uses	Source	
1970	Gaines David E	R.L.Polk Co.	Image pg. A4

17400 NE WILKES RD

Year	Uses	Source	
1970	Taylor Roger	R.L.Polk Co.	Image pg. A4
1967	SCHUM JOHN H	R.L.Polk Co.	Image pg. A5

17410 NE WILKES RD

Year	Uses	Source	
1980	Calhoun W L	R.L. Polk Co. Publishers	Image pg. A2
1970	Henderson Tom T	R.L.Polk Co.	Image pg. A4
1967	SCHMIDT DONALD W a	R.L.Polk Co.	Image pg. A5
	NURSERYMN	R.L.Polk Co.	Image pg. A5
	SCHMIDT DON NURSERY	R.L.Polk Co.	Image pg. A5

17528 NE WILKES RD

Year	Uses	Source	
1970	Myers Mabel Mrs	R.L.Polk Co.	Image pg. A4
	Unruh Gloria Mrs	R.L.Polk Co.	Image pg. A4

FINDINGS

Year	Uses	Source	
1967	MYERS MABEL MRS S	R.L.Polk Co.	Image pg. A5
	UNRUH GLORIA MRS	R.L.Polk Co.	Image pg. A5

17620 NE WILKES RD

Year	Uses	Source	
1970	Burns Joseph L	R.L.Polk Co.	Image pg. A4
1967	JONES JESSE E	R.L.Polk Co.	Image pg. A5

WILKES RD NE

17038 WILKES RD NE

Year	Uses	Source	
1977	Blane David J landscaper	R.L. Polk Co. Publishers	Image pg. A3

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
17020 NE Wilkes Road	2013, 2008, 2003, 1998, 1993, 1988, 1981, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
17020 NE WILKES RD	2008, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17038 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17038 WILKES RD NE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17100 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17130 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17200 NE SACRAMENTO ST	2013, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17201 NE SACRAMENTO ST	2013, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17215 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17225 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17321 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17331 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1967, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17400 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17410 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17528 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
17620 NE WILKES RD	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924
2544 NE 169TH AVE	2013, 2008, 2003, 1998, 1993, 1988, 1985, 1981, 1980, 1977, 1975, 1970, 1965, 1960, 1955, 1950, 1946, 1940, 1935, 1930, 1924

Source Page Images Appendix

Residential ☐ Auto ☐ Commercial ☐ Mirrors ☐ Shelves ☐ Table Tops
TEL. 667-8282
19040 S.E. Stark
Portland, Oregon 97233

SINCE 1896
CREDIT REPORTING - COLLECTIONS
937 S.W. 14th Av. (Portland - 97205)
226-3531

Portland Adventist Medical Center
10123 S.E. MARKET STREET
PORTLAND, ORE. 97216
TEL. 257-2500

NE WEIDLER ST—Contd
11325 Care Center East nursing home 253-1181
Beale Charlotte 252-0915
★Forbes Lucille 257-6796
Winters Leila M Mrs 257-6719
Cordiss Bruce 255-3033
★Hays Clara 254-9063

533
ZIP CODE 97230
NE 126TH AV INTERSECTS
12625 App Leo B ◎ 252-8141
12626 Derr Reuben A ◎ 256-0774
12657★Reil Dennis E ◎
12658 Holzman Raymond J ◎ 252-8793
12672 Flanagan Donald A ◎ 254-8573
12681 Saint John Ronald J ◎ 254-2179
12750 Ryan Bertram A ◎ 255-4665
NE 128TH AV INTERSECTS
13010 Stiger Norman R ◎ 253-5520
13015 Thompson David M 255-8336
13031★Oshia Wm J ◎ 255-1102
13036 Ryan Robt D ◎ 253-4614
13045 Bergan Robt D ◎ 252-1086
13055 Cullens Victor R ◎ 254-1656
13063 Wilson Harold L ◎ 252-3786
13075 Rondeau Donald W ◎
13080 Kobek Walter A ◎ 254-2826
13085 Schulte Robt P ◎ 253-3800
13090 Gillespie Geo K ◎ 253-3933
13093 Vining Nada Mrs ◎ 256-0481

535
NE 142D AV INTERSECTS
14204 No Return
14222 Griffis Jack M 253-1544
14227 Binniger Donald L ◎ 255-4443
14233 No Return
14238 Mc Garry Helen M Mrs ◎ 254-4214
NE 143D AV INTERSECTS
NE 144TH AV INTERSECTS
NE 146TH AV INTERSECTS
14603 Schmidt Eug F ◎ 252-7955
14621 Franko Steph J ◎ 255-5322
14633 Eisenzimmer Danl L ◎ 255-5518
14634 Furniss A Victor ◎ 256-0285
14646 No Return
14647 De Bois Chester F ◎ 253-1252
14652 Gomez Christian H ◎ 255-2110
14702 Olson
14714 Vacant
14717 Teresi Mary P Mrs ◎

523
NE 157TH AV INTERSECTS
15713 Mac Swan Neil T ◎ 255-8562
15730★Jannsen Stephan J ◎ 255-5023
15739 Kiso Aug Y ◎ 254-4895
15750 Carver Patricia S Mrs ◎ 254-9459
15751 Krum Kerry J ◎ 256-1748
15757 Lyman Gary D ◎ 255-0730

606
WELCH RD SE (GRESHAM)—FROM SE ORIENT DR EAST

ZIP CODE 97030
SE 267TH AV INTERSECTS
4520 Johnson Robt L ◎ 663-6605
4525★Pauley James W ◎ 663-5652
4551 Craig Richd ◎ 663-6477
4601 Hoffard Donald 663-1252
4625 Vacant
4615 Wales Robt C 663-6639
4631 Faulkner Jimmy D ◎ 663-1074
26900 Winters John J ◎ 663-6743
S E ORIENT DR INTERSECTS
4717 Jordan Iantha ◎
4735 Davis John G ◎ 663-3406
4801 Davis Wm E 663-3771
4819 Davis Wm E
SE CONDOR AV INTERSECTS
4820 Tomlin Terry L 663-4670
4907 Davis Donald T ◎ 663-3051
4910 Hanke Holden M ◎ 663-5004
4917 Wallace Bob L ◎ 663-3387
4921 Brooks Larry G ◎
4928 Mc Burney Patk W 663-6487
5012 Briscoe Norman L ◎ 663-3484
5015 Laws Marilyn Mrs
5024 Dennis David ◎
5030 No Return
5031 Gayken Ronald K ◎ 663-4570
5036 Ladbury Rick H ◎ 663-1927
5127 Gannon Owen R ◎ 663-6345
5128 Bell Richd A ◎ 663-5954
5134 Wright Clifford J ◎
5137 Smith Ronald L ◎ 663-7804
5140 Guinn Kenneth E ◎ 663-6249
SE GLACIER AV INTERSECTS
5141 Vacant
5204 Whitney Theo J ◎ 663-5307
SE GLACIER AV INTERSECTS
5220 Connors Geo E ◎ 663-4002
27503 Brueshoff Paul ◎
5301 Atterberry Gene W 663-5296
5310 Long Orval 663-1242
5326 Ross Albert L ◎ 663-3044
5407 Clark Charley F ◎ 663-3561
COUNTY ACCESS ROAD INTERSECTS
5441 Henshaw Eug D ◎ 663-4816
5510 Ashford Harold L ◎ 663-3341
5534 Lucky James E ◎ 663-3354
5616 Wagner Elmer H ◎ 663-4867
5620 Bennett Geo O ◎ 663-4572
5622 Nichols Geo R
5624 Lasher Robt M ◎
5632 Calhoun Donald L ◎ 663-6608
S E VIRGINIA AV INTERSECTS
5708 Place Ronald K 663-5302
5820 Anderson Harvey C ◎ 663-3867
5836 Ramey Alvin D ◎
5914 Stone Patricia
S E 282D AV INTERSECTS

606
WENDY AV SE (GRESHAM)—FROM 4055 E POWELL BLVD SOUTH

ZIP CODE 97030
956 Wenzel Wm A ◎ 661-1661
959 Kent Kevin ◎ 661-1437
972 Duncan David G ◎ 661-3214
Supply Davis Michl O ◎
989 Holler Douglas G ◎ 666-6886
S E 10TH DR INTERSECTS
1032 No Return
1039 Ekelad Bob
1046 No Return
1055 No Return
1072 Bender Val R Rev ◎
1079 Finch Tony ◎ 665-1690
1086 Turner Robt M ◎ 667-9057
1095 Mathews Steph R ◎ 666-9109
1167 Hinesh Wm A ◎ 667-4646
S E 12TH CT INTERSECTS
S E 12TH ST INTERSECTS
1213 Pagsolingan Josefa Mrs ◎ 661-4609
1235 Dor-O-Matic Access Controls 666-3060
1248 Mowe James E ◎
1257 Snyder P ◎
1279 Aguon Joseph E ◎ 661-5356
1292 Portin Morris I ◎ 661-5858
SE 13TH ST INTERSECTS
SE LAURA DR INTERSECTS
1343 Swartz Thos J ◎ 661-0805
1355 Vacant
SE 14TH ST INTERSECTS
1405 Bufton Michl W ◎
1427 Wood Howard W ◎ 661-7177
1450 Falta Fredk W ◎ 667-5118
1463 Braithwaite Paul E Jr ◎ 666-7505
1486 Maederer Gilbert C ◎
1495 Younce Steve H ◎
S E 15TH CT INTERSECTS
1506 Bowman Myrlen ◎
1546 Shodell Lauoli H ◎
1595 Wilhelm Robt K ◎
S E 16TH ST INTERSECTS
1625 Jackson Shirl S ◎ 667-6500
1645 Kreuder Thos M ◎
1646 Filer Lloyd E ◎ 666-2000
S E 17TH ST INTERSECTS
S E WENDY CT INTERSECTS

606
WENDY CT SE (GRESHAM)—FROM 4072 SE 17TH ST SOUTH

ZIP CODE 97030
1710 Vacant
1725 Alkhal Dirgam T ◎
1730 Morris Stanley C ◎ 666-2726
1770 Sanchez T J ◎ 666-7571
1775 Price Warren L ◎ 665-3474
1800 Portinga Dale R ◎ 665-3933
1805 Mcquery Charles W ◎
1815 Oswald Richd J ◎
1820 Hieb H J ◎ 667-7885

606
WENDY DR SE (GRESHAM)—FROM 2235 SE ORIENT DR SOUTH

ZIP CODE 97030
2171 Flesey Michl P 663-7813
2223 Richard Carl D ◎
2236 Holden L L ◎
2245 Werner Lowell ◎ 663-7826
2260 Marshall Dana L ◎
2271 Jones James E ◎
2328 Rutz Jake ◎ 663-3701
2343 Yates Val ◎
2366 Guttridge Ronald D 663-6990
2385 Cowling John T ◎
2440 Benfit Leo C ◎ 663-3170
2441 Ahlberg David L ◎
2458 Warden James M ◎
2486 Vacant
S E 25TH ST INTERSECTS
2530 Sendelback Wm C ◎
2543 Fornoff Thomas J ◎
SE 26TH CT INTERSECTS
2578 Hermens Ray J ◎ 663-1705
2585 Gress Victor ◎ 663-5442
2631 Thornberg Mark H ◎
2673 No Return

610
WENDY LA NE (GRESHAM)—FROM 4140 N E 8TH ST SOUTH

ZIP CODE 97030
634 Simmons Michl ◎ 666-6107
645 Eidsness Donald H ◎
656 Nelson Richd E ◎ 667-2523
672 Clark Dennis C
685 Craswell Wm B ◎ 666-4325
698 Vannett Delbert C ◎ 666-1188
717 Hunefeld Merle E ◎ 667-3550
739 Klein
751★Arseneault Russell ◎
752 Miyashiro Fredk H ◎ 666-7324
773 Johnson Carrol E ◎ 666-7819
780★Galloway Raymond ◎ 665-8279

525
WILKES RD NE —FROM NE 169TH AV EAST 2 NORTH OF NE HALSEY ST

ZIP CODE 97230
NE 169TH AV INTERSECTS
17020 Wilkes Elementary School 255-6133

569
NE 181ST AV INTERSECTS
18120 Firestone Tire & Rubber Co (Mfg Sls Div) 665-2113
Firestone Retread Shop tire retreading 665-9188
Firestone Tire & Rubber (Whse) 666-1593

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NEW AND USED CARS AND TRUCKS
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107 S.E. GRAND AV. TEL. 232-2000

606
WENDY DR SE (GRESHAM)—FROM 2235 SE ORIENT DR SOUTH

ZIP CODE 97030
2235 Vacant
2236 Vacant
2253 Vacant
2260 Vacant
2271★Jones James E ◎ 663-5513
2328★Rutz Jake Sr ◎ 663-3701
2343 Vacant
2366★Guttridge Ronald W 663-6990
2385 Cowling
2440★Benfit Leo C 663-3170
2466 Vacant
2486 Vacant
S E 25TH ST INTERSECTS
2530★Sendelback W
2545 Vacant
SE 26TH CT INTERSECTS
2578 Vacant
2585★Grise Victor 663-5442
2610 Under Constn
2631 Thornberg Mark H 663-6585
2673 Garaycochea Baldo A ◎ 663-4602

610
WENDY LA NE (GRESHAM)—FROM 4140 N E 8TH ST SOUTH

ZIP CODE 97030
634 Simmons Michl 666-6107
645 Eidsness Donald H Distributorship bakers
Eidsness Donald H ◎
656 Nelson Richd E ◎ 667-2523
672 Inman Leslie J ◎ 666-2351
685★Craswell Wm B 666-4325
698 Vannett Delbert 666-1188
717 Hunefeld Merle E ◎ 667-3550
739 Vacant
751★Conlee P J 665-5312
752 Miyashiro Fredk H ◎ 666-7324
773 Johnson Carrol E ◎ 666-7819
780★Hull Charlie D ◎ 667-4043

571
WHITAKER WAY N E —FROM N E 122D AV EAST 1 SOUTH OF N E MARINE DR

ZIP CODE 97230
12255 Gibbons & Reed Construction Co genl constn 255-6101
12304 Don-Frank Inc carpets 255-2580
12306 S A S Fluid Power Inc 256-5110
12308 My Ceramic Shop 252-8224
12310 W T C Air Freight air frt & exp 255-0597
12312 Aicraig Air Freight Inc 256-4326
Garcia Transport Co del serv 256-4326
12410 M C S Manufacturing Co plastic molds 252-2403
12423 Forrester's Inc rainwear mfr 255-7843
12520 San Jose Steel Co Inc wire & iron wks fencing 255-3203
12545 Cascade Auto Brokers 255-8783
Cascade Auto Lease 255-8783
Van Workshop Inc The van conversions 255-9374
K & B Business Service bkpg serv 255-3526
12713 Commercial Credit Equipment Corp fnce-leasing-boats trcks cars 255-7403
Mc Cullagh Leasing Inc fnnce-lsng boats cars trucks 255-7403
12715 Travelaire recreational vehicles mfg 254-7301
12727 Triple H Distributing Co 255-9661
12729 E M F Electronics Corp 252-6958
12730 Miller Paint Co 255-0190
12731 Lifetime Tile Roofing & Construction 253-0854
12831 German Auto Parts retail 255-6565
12841 Western Wrecker Sales & Leasing Inc towing trucks 256-4200
12986 Interstate Heavy Hauling Inc trucking 256-3355
13030 Oregon Wire Products Co Inc 255-5155
13126 John's Portland Import Auto Parts 255-8735
13200 Pacific Air Filter Mfg Co Inc 257-0311
13204 Sound Exp (Whse) 256-2584
13210 Schwary Fred (Whse) 254-4774
13435 Huserik Manufacturing Co 252-9811
Skilcraft Northwest whol artist matls 257-0559
13552 Robinson Bros Construction Inc 254-6596
NE 135TH AV INTERSECTS
13585 Marshall Equipment Co Inc heavy constn machy 255-5509
NE 136TH AV INTERSECTS
13620 Under Constn
13691 Wright Concrete Co Inc 254-4771
13730 United Tire & Rubber Co (Br) tire mfg & distr 257-0505
NE 138TH AV INTERSECTS

525
WILKES RD NE —FROM NE 169TH AV EAST 2 NORTH OF NE HALSEY ST

ZIP CODE 97230
NE 169TH AV INTERSECTS
17020 Wilkes Elementary School 255-6133
17038 Vacant
17321★Mitchell Fred
17410 Calhoun W L
17636 Thornton Melvin D
17841 Vacant

569
NE 181ST AV INTERSECTS
18120 Firestone Tire & Rubber Co (Mfg Sls Div) 665-2113
Firestone Retread Shop tire retreading 665-9188
Firestone Tire & Rubber (Whse) 666-1593
Union Oil Tire (Whse) 665-0176
18600 Viking Industries Inc mfrs aluminum bldg prods 667-6030
18950 Viking Ind (Addl Sp)

606
WILLIAMS AV SE (GRESHAM) FROM 4397 SE 16TH ST SOUTH

ZIP CODE 97030
1575 Hibbert Arth D ◎
1577★Dilger Robt E ◎ 666-8377
SE 16TH CT INTERSECTS
1627 Vacant
1635★Hansen Russell D 666-8425
S E 17TH CT INTERSECTS
1787 Bentley Phillip C 665-0263
SE 18TH CT INTERSECTS
1817★Covert Homer F ◎ 665-3704
1827 Cornett Gary J ◎ 667-4115

611
WILLOW PARKWAY SW (GRESHAM) FROM 3052 SW TOWLE AV WEST

1646 Under Constn
1647 Gilford James C 666-6108
1697 Bardon Robt D 665-0629
1720 Vacant
1727★Dreiling Gerald P ◎ 666-3688
SW ANGELINE AV INTERSECTS
1797 Vacant
SW 30TH DR INTERSECTS
1979★Wegner

642
WILLOWBROOK AV SW (GRESHAM) FROM SW 8TH DR NORTH 1 WEST OF SW BELLA VISTA PL

ZIP CODE 97030
380 Under Constn
388 Larsen Gerald M 666-7328
Under Constn
SW 4TH ST INTERSECTS
401 Vacant
427 Mumford
465 No Return
481 Under Constn
SW 5TH INTERSECTS
537 Under Constn
SW BIRDSDALE DR INTERSECTS
555 Under Constn
627 Vacant
632 Vacant
635★Johnson Tom ◎
659★Spitzer Chaud R ◎ 661-2334
663 No Return
668 Johnson
671★Tornga Harmon K ◎ 667-4356
695 Vacant
696 Vacant
712 Gardner James C ◎ 665-4980
717★Nishikawa Teruko ◎
720 Alyea John W Rev ◎ 666-2635
721 Comer A B 666-6448
734★Guerts Wm 667-4003
735★Koivisto Ronald B ◎ 667-4486
743★Dombkowski Mark J ◎ 666-7774
748 No Return
759★Boland Ronn 667-4663
766 Vacant
767 Pick Wm F ◎ 666-3524
781★Howard S
782★Kichner Tim ◎ 661-4525

611
1479 Vacant
1491 Bryant
SW 15TH ST INTERSECTS
1510 Zeller
1534 Cesario Geo 666-4229
SW 15TH CT INTERSECTS
1547 Oihus Ronald C 665-2317
1556 Lopez John P 666-8343
1585★Brunke John 666-1731
1618 Hartel Allen ◎ 666-3646
1633 Vacant
1642 Jansen David R 667-9050
1679★Roper David L 666-9240
1754 No Return
SW 17TH ST INTERSECTS
SW HEINEY RD INTERSECTS
2229 Under Constn
2232 Vacant
2341 Vacant
SW 24TH DR INTERSECTS
2429 Vacant
2430★Taggard Wm C ◎ 661-4188
SW 25TH ST INTERSECTS

604
WILLOWBROOK CT NW (GRESHAM) FROM W POWELL BLVD NORTH 1 WEST OF BELLA VISTA AV

ZIP CODE 97030
20 Coyle Herbert T ◎ 665-3917
40 Huffman Allen M ◎ 665-5030
70 Brodersen Wm C ◎ 666-1187
90★Donigan Wm D ◎
110★May John L 665-4502
120★Clark Richd L ◎ 661-0475
1505★Weeks Robt ◎
1522 Vacant
1535 Mc Pherson Ronald G ◎ 661-0495
1542 Vacant
1555★Ross Clayton ◎ 667-5909
1568★Tarnovsky Lawrence R ◎ 666-4832
1575 Waring Erwin R ◎ 666-2073

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SE WELCH RD (G)—Contd
27637 Clark Charley F ◎ 663-3561
COUNTY ACCESS ROAD INTERSECTS
27643 Henshaw Eug D ◎ 663-4816
27734 Lucky James E ◎ 663-3354
27816 Wagner Elmer H ◎ 663-4867
bx888 Bennett Geo O 663-4572
bx892 Nichols Geo R 663-4533
27824 Lasher Robt M ◎ 663-4452
27834 Kamp Julian J Jr 663-3155
27910 Vacant
bx928 Anderson Harvey C ◎ 663-3867
28018 Ramey
28104 No Return
S E 282D AV INTERSECTS

606
WENDY AV SE (GRESHAM)—FROM 4072 SE 17TH ST NORTH

ZIP CODE 97030
1486 Maederer Gilbert C ◎ 667-0733
1495 Younce Steve H 665-3781
S E 15TH CT INTERSECTS
1506 Bowman Myrlen ◎ 666-7615
1546 Bratt Harry R ◎ 667-9336
1595 Shradar Kenneth J ◎ 666-3202
S E 16TH ST INTERSECTS
1625 Jackson Shirl S ◎ 667-6500
1645 Kreuder Thos M ◎ 662-8119
1646 Filer Lloyd E ◎ 666-2000

606
WENDY CT SE (GRESHAM)—FROM 4072 SE 17TH ST SOUTH

ZIP CODE 97030
1710 Barrett James W ◎ 666-8791
1725 No Return
1730 Morris Stanley C ◎ 666-2726
1770 Sanchez T J ◎ 666-7571
1775 Price Warren L ◎ 665-3474
1800★Portinga Dale R ◎ 665-3933
1805 Hinamon James K ◎ 665-4454
1815 Oswald
1820★Sakrison Oscar W ◎ 665-9800

610
WENDY LA NE (GRESHAM)—FROM 4140 N E 8TH ST SOUTH

ZIP CODE 97030
634 Simmons Michl
645 Eidsness Donald H Distributorshop bakers
Eidsmess Donald H ◎
656 Nelson Richd E ◎ 667-2523
672★Inman Leslie J ◎ 666-2351
685 No Return
698★Birnbaum Rodger A ◎ 667-1148
717 Hunefeld Merle E ◎ 667-3550
739★Joerres Robt J ◎ 666-4926
751 Vacant
773 Johnson Carrol E ◎ 666-7819
780 Ayers

571
WHITAKER WAY N E —FROM N E 122D AV EAST 1 SOUTH OF N E MARINE DR

ZIP CODE 97230
12255 Gibbons & Reed Construction Co genl constn 255-6101
12410 M C S Manufacturing Co plastic molds 252-2403
12423 Forrester's Inc rainwear mfr 255-7843
12520 San Jose Steel Co Inc wire & iron wks fencing 255-3203
12545 Van Workshop Inc 255-9374
12713 Commercial Credit Equipment Corp fnce-leasing-boats trcks cars 255-7403
Mc Cullach Leasing Inc fnnce-lsng boats cars trucks 255-7403
12715 Travelaire 254-7301
12727 Auto Sound Systems 255-9661
12831 German Auto Parts retail 255-6565
12841 Western Wrecker Sales & Leasing towing trucks 256-4200
12986 Interstate Heavy Hauling Inc trucking 256-3355
13030 Oregon Wire Products Co Inc 255-5155

525
WILKES RD NE —FROM NE 169TH AV EAST 2 NORTH OF NE HALSEY ST

ZIP CODE 97230
NE 169TH AV INTERSECTS
17020 Wilkes Elementary School 255-6133
17038 Blaine David J landscaper 254-2593
17321★Romero Dionisio 253-9776
17410★Calhoun W L
17636★Thornton Melvin D
17841★Pimentel Jose 667-6838

569
NE 181ST AV INTERSECTS
18120 Firestone Tire & Rubber Co (Mfg Sls Div) 665-2113
Firestone Retread Shop tire retreading 665-9188
Firestone Tire & Rubber (Whse) 666-1593
Union Oil Tire (Whse) 666-1593
18600 Viking Industries Inc mfrs aluminum bldg prods 667-6030
18950 Vacant

606
WILLIAMS AV SE (GRESHAM) FROM 4397 SE 16TH ST SOUTH

ZIP CODE 97030
1575 Hibbert Art D ◎
1577 No Return
SE 16TH CT INTERSECTS
1627 Swafford Fred H ◎ 666-3915
1635 Sipes Geo E 666-6787
S E 17TH CT INTERSECTS
1787 Bentley Phillip C 665-0263
SE 18TH CT INTERSECTS
1817 Aho E David ◎ 667-0928
1837★Cornett Gary J ◎ 667-4115

642
WILLOWBROOK AV SW (GRESHAM) FROM SW 8TH DR NORTH 1 WEST OF SW BELLA VISTA PL

ZIP CODE 97030
725 Under Constn

611
1492 Bryant
1510 Vacant (3 Hses 1510-1556)
1633 Vacant
1635 Vacant
1642 Under Constn

604
WILLOWBROOK CT NW (GRESHAM) FROM W POWELL BLVD NORTH 1 WEST OF BELLA VISTA AV

ZIP CODE 97030
40 Under Constn
70 Under Constn
80 Vacant
90 Vacant
120★Smith R P

611
WILLOWBROOK CT SW (GRESHAM) FROM 800 WILLOWBROOK AV WEST IN A SEMI-CIR 1 NORTH OF SW 15TH CT

ZIP CODE 97030
1400 Vacant
1420 Under Constn (3 Hse 1420-1440)
1445★Griffiths Harold A ◎ 667-0704
1456 Vacant
1470 Vacant
1479 Under Constn
1926 Vacant
2830 Under Constn (5 Hse 2830-2890)

611
WILLOWBROOK PL SW (GRESHAM) FROM SW 17TH ST SOUTH IN A SEMI-CIR 1 WEST OF SW BELLA VISTA PL

ZIP CODE 97030
1731 Under Constn (3 Hse 1731-1780)

603
WILSON AV NW (GRESHAM)—FROM 843 W POWELL BLVD NORTH

ZIP CODE 97030
25 Booher Robt E ◎ 665-8415
42 Moen Geo ◎ 665-4233
45 Schmick John ◎ 665-3735
65 Peterson Melvin C ◎ 665-3225
68 Brown J Ross ◎ 665-4633
80 Walter Willard M ◎ 665-5890
85 Dobson Cathy Mrs ◎ 665-2524
97 Kidder Roger G ◎ 665-3003
98 Welling Eug L ◎ 665-2433
NW 1ST ST INTERSECTS

569
WISTFUL VISTA DR NE —FROM A POINT WEST OF NE 205TH AV EAST 2 SOUTH OF BANFIELD FREEWAY

ZIP CODE 97060
20401 Hood Thos B ◎ 665-3978
20449 Gregg Dwight W ◎ 665-2812
NE 205TH AV INTERSECTS
20525 Schatz Paul Jr ◎
20730 Gault Glen A ◎ 665-5031
20736 Grady Durwood R bldg contr ◎ 665-2757
20818 Densem Douglas G ◎ 667-1080
20825 Sasaki Sam ◎ 665-4742
20900 Huff Douglas E ◎ 665-4264
20930 Robinson Burt L ◎ 665-0042
20934 Myers Kenneth
20937 Perkins Geo
bx601-2★Brune Charles A 666-4336

604
WONDERVIEW AV NW (GRESHAM) FROM 2031 NW 1ST ST SOUTH

ZIP CODE 97030
83 Vacant

604
WONDERVIEW CT NW (GRESHAM) FROM 1922 NW DIVISION ST SOUTH

ZIP CODE 97030
910 Wonderview Court apts Vacant
915★Walker Craig A 667-5758
920 Ramseth L C 665-4312
925 Nastasia Charles A
940 Johnson Karen 666-8819
945★Gilbert C A 667-4867
960 Hughes Joseph W
965 Vacant
970 Stephens S M 665-1702

NE WILKES RD 1970

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625 S.W. MORRISON, PORTLAND — PHONE 228-3131
33d and N.E. SANDY BOULEVARD — PHONE 235-3131
MORGANS ALLEY, 515 S.W. BROADWAY — PHONE 228-3153
PORTLAND HILTON SHOP — PHONE 226-1611, EXT. 127

410

NE WEIDLER ST—Contd
NE 128TH AV INTERSECTS
13010 Stiger Norman R ◎ 253-5520
13015 Snyder Carl J 255-4637
13031 Siebert Hilarion A ◎ 253-9971
13036 Ryan Robt D ◎ 253-4614
13045 Carson Larry M ◎ 255-9206
13055 Cullens Victor R ◎ 254-1656
13063 Wilson Harold L ◎ 252-3786
13075 Rondeau Donald W ◎
13080 Kobek Walter A ◎ 254-2826
13085 Grant Joseph V ◎ 254-0725
13090 Gillespie Geo K ◎ 253-3933
13093 Vining Warren H ◎ 252-0816

135

142D AV INTERSECTS
14204 Taylor Billy R ◎ 254-0157
14222 Griffis Jack 253-1544
14227 Ray Robt L ◎ 255-9196
14233 Mc Gill Peter K ◎ 253-5783
14238 Mc Garry Helen M Mrs ◎ 254-4214
NE 143D AV INTERSECTS
NE 144TH AV INTERSECTS
NE 146TH AV INTERSECTS
14702 Ambrose Darryl G 255-0766
14714 Vacant
14717 Teresi Frank J ◎ 253-5438

123

NE 157TH AV INTERSECTS
15713 Vacant
15730 Gregory Bertram F ◎ 255-0948
15739 Kiso Aug Y ◎ 254-4895
15750 Sharp Rollin D ◎ 254-7295
15751 Brown Lowell D ◎ 252-4290
15757 Grieve Wm M ◎ 252-0165

125

WILKES RD NE —FROM NE 169TH AV EAST, 2 NORTH OF NE HALSEY ST

ZIP CODE 97230
169TH AV INTERSECTS
17020 Wilkes Elementary School 254-3616
17038 Chilcote Dan E ◎ 254-1042
17100 Butzin Don E ◎ 252-2304
17130 Mc Givern Thos L ◎ 254-1658
17215 Johnson John W ◎ 255-9749
17225 Linthorst Wm A ◎
17321 Gaines Ray B ◎ 254-2098
17331 Gaines David E ◎ 252-0354
17400 Taylor Roger ◎ 255-3744
17410 Henderson Tom T
17528 Myers Mabel Mrs ◎ 253-1052
Unruh Gloria Mrs
17620 Burns Joseph L ◎ 254-4204
17633 Lambert Robt
17636 Moody Richd L ◎ 253-5803
17637 Malo Ingrid C Mrs 252-7303
17841 Wayside Trailer Court 665-7391
Pool Clifford ◎ 665-7391
Lot Spaces
1 Crane Dean E 666-1078
2 Vacant
3 Flintoff Steven L 665-4712
4 Wade Pete B
6 De Camp Robt D 665-8061
7 Olson Robt L 665-0243
8 Warren Charles H 665-8811
9 Ulmer Marion
10 Storm Melvin 665-0714
11 Raxter Ted
12 Gibson Maynard 665-8658
13 Vacant
14 Ostrander Robt G 666-2345
15 Smith Everett R 665-8271
16 Clapp Cleve 665-8866
17 Raikoglo Geo L 665-7258
18 Bowers Clarence
19 Vacant
20 Le Master Dean
17900 Foley Fredk ◎ 665-3693

169

NE 181ST AV INTERSECTS
18120 Firestone Tire & Rubber Co (Dist Sls Ofc) 665-8181
Firestone Retread Warehouse 665-9188
Union Oil Tire (Whse) 665-0176
18950 Lennox Industries Inc air condtng htg 665-6151

203

WILSON AV NW (GRESHAM)—FROM W POWELL BLVD NORTH, 5 WEST OF S MAIN AV

ZIP CODE 97030
25 Booker Robt E 665-8415
42 Moen Geo ◎ 665-4233
45 Schmick John ◎ 775-3735
65 Peterson Melvin C ◎ 665-3225
68 Brown J Ross ◎ 665-4633
80 Fish Clifford A ◎ 665-3343
85 Dobson Russell M ◎ 665-2524
97 Kidder Roger G ◎ 665-3003
98 Welling Eug L ◎ 665-2433
NW 1ST ST INTERSECTS

169

WISTFUL VISTA DR NE —FROM A POINT WEST OF NE 205TH AV EAST 2 SOUTH OF BANFIELD FREEWAY

ZIP CODE 97060
20401 Hood Thos B ◎ 665-3978
20449 Gregg Dwight W ◎ 665-2812
205TH AV INTERSECTS
20525 Schatz Paul Jr ◎
20730 Gault G A ◎ 665-5031
20736 Grady Durwood R bldg contr ◎ 665-2757
20818 Gifford Marshall B ◎ 665-3603
20825 Sasaki Sam ◎ 665-4742
20870 Rekate Arnold G ◎ 665-7996
20900 Huff Douglas E ◎ 665-4264
20930 Robinson Burt L ◎ 665-0042
20934 Vacant

163

WISTFUL VISTA ST (FAIRVIEW)—FROM NE 223D AV WEST, 1 NORTH OF NE HALSEY ST

ZIP CODE 97024

204

WONDERVIEW CT NW (GRESHAM) FROM NW WONDERVIEW PL EAST, ONE NORTH OF W POWELL BLVD

204

WONDERVIEW PL NW (GRESHAM) FROM W POWELL BLVD NORTH, 1 EAST OF NW BIRDSDALE AV

ZIP CODE 97030
83 Carver Geo ◎ 665-0256

TP	Adjoining	Source
✓	✓	R.L.Polk Co.

NE WILKES RD 1967

390

WEIDLER ST NE--CONTD
EDGEMONT TERRACE APARTMENTS--CONTD
213 FOSS NORMA J 252-7791
214 JENSEN KATHLEEN 252-8269
215 SHANKS T A REV
216 TOWNSEND BETTY
217 STUART WM J 255-2333
218 CHAMBER CELIA L 252-9783
219 SOEHREN DOUGLAS
220 MC GRIFF HERSHEL E 255-4465
STREET CONTINUED
11211 EDGEMONT TERRACE APARTMENTS 254-7009
121 WILSON JOHN Q 255-1915
122 BRAY J ALLAN 254-2560
123 LEROY JAMES S
124 FRYMIRE KIRBY L
125 WAGENAAR JAN 254-8852
126 GUSTAFSON DENNIS I 255-5266
127 BARTLETT LORETTA 252-8560
128 JORDON WAYNE C 255-5144
129 LEAKE GLADYS MRS 254-5620
130 REILLY M P 255-3520
131 MUNSON LE MAINE
132 FRY LE ROY H
AYDELOTT OWEN L 254-7009
134 SEWELL JULIA MRS
135 SCHMUCK GERALD 254-6327
ROGERS LARRY D 253-6109
137 REBAGLIATTE PIETRO G 253-5979
138 GUARD ROBT
139 STEPHENS ARCHIE D 252-9390
140 FOLK WM R 252-9174
141 HASBROUCK DARRELL C 252-8706
142 LEDBETTER BETTE
221 PHELAN ELIZ 253-5086
222 MATSEN MARVIN 255-4791
223 WEIS DIANE
224 SWOFFORD JULIA A 252-5113
225 GOLLNICK EDW 253-3771
226 HIPPERSON DONALD G 255-5516
227 SMITH LAWRENCE E 254-8944
228 WARNER F B 253-9277
229 MATSEN MAUREEN 255-4791
231 SWAIN CHARLES W 255-4787
232 CASTNER GEO R 252-8088
233 GOTBERG CLEONE L 252-0175
234 SMITH DENNIS A 254-7929
235 KEENAN CHARLES J 254-1476
236 YODER POLLY M MRS 254-7013
237 MARTIN PAMELA S 255-9266
238 UNDI STANLEY I 252-6059
239 JONES MARJORIE H 252-9460
240 WRIGHT ALF
241 SCALLON HELEN M 255-4692
242 FURRY NORVEN R 255-4487
---113TH AV INTERSECTS
11325 CARE CONVALESCENT HOME NURSING HOME 253-1181

133

---ZIP CODE 97230
---126TH AV INTERSECTS
12625 APP LEO B ●
12626 HAMILTON ROLLIE B ● 252-5256
12657 FORSMAN RALPH C ● 253-6934
12658 SIFRI ELIE C ● 252-7895
12672 FLANAGAN DONALD A ● 254-8573
12681 FLETCHER JOHN F ● 253-1753
12750 RYAN BERT A ● 255-4665
---128TH AV INTERSECTS
13010 HANNON TERRY G ● 253-1395
13015 PALMER MICHL ● 254-5906
13031 SIEBERT HILARION A ● 253-9971
13036 RYAN ROBT D ● 253-4614
13045 CARSON LARRY M ● 255-9206
13055 CULLENS VICTOR R ● 254-1656
13063 WILSON HAROLD L ● 252-3786
13075 RONDEAU DONALD W ●
13080 KOBECK WALTER A ● 254-2826
13085 GRANT JOSEPH V ● 254-0725
13090 GILLESPIE GEO K ● 253-3933
13093 VINING WARREN H ● 252-0816

135

---142D AV INTERSECTS
14204 TAYLOR BILLY R 254-0157
14222 ADAMS RICHD 255-1539
14227 RAY ROBT L ● 255-9196
14233 MC GILL PETER K ● 253-5783
14238 MC GARRY HELEN M MRS ● 254-4214
14702 AMEROSE DARRYL G 255-0766
14714 GRABE DALE 253-2649
---143D AV INTERSECTS
14717 TERESI FRANK J ● 253-5438

123

---157TH AV INTERSECTS
15713 DIXON JAMES F ● 255-1531
15739 KISO AUG Y ● 254-4895
15750 SHARP ROLLIN D ● 254-7295
15751 BROWN LOWELL D ●
15757 GRIEVE WM M ● 252-0165

125

WILKES RD NE -FROM NE 169TH AV EAST, 2 NORTH OF NE HALSEY

---ZIP CODE 97230
---169TH AV INTERSECTS
17020 WILKES ELEMENTARY SCHOOL 254-3616
17038 CHILCOTE DAN E 254-1042
17100 BUTZIN DON E ● 252-2304
17130 DAVIDSON LOVAT G ● 254-2096
17215 JOHNSON JOHN W ● 255-9749
17225 VACANT
17321 GAINES RAY B ● 254-2098
17400 SCHUM JOHN H ● 253-6091
17410 SCHMIDT DON NURSERY
NURSERYMN 253-9013
SCHMIDT DONALD W ● 253-9013
17528 MYERS MABEL MRS ● 253-1052
UNRUH GLORIA MRS
17620 JONES JESSE E 252-5467
17633 MALO EUG C ● 252-7303
17636 MOODY RICHD L ● 253-5803
17637 SCHMIDT WM 252-5954
17841 WAYSIDE TRAILER COURT 665-7391
POOL CLIFFORD ● 665-7391
LOT SPACES
1 YAWN BILL L 665-9687
CONLEY CHUCK
3 KING STEWART G 665-5247
4 WADE PETE
7 LAMOTHE FRANK P
8 WARREN CHARLES H
JORDAN DENNIS
11 RAXTER TED
12 KES LEVI 665-8658
14 HALL JAMES
15 SAWYER LYLE 665-6051
16 CLAPP CLEVE 665-8866
17 ALEXANDER MAX
18 BOWERS CLARENCE
19 OLSON BOB 665-0243
20 WAUGH CHARLES
17900 FOLEY FREDK 665-3693

169

---181ST AV INTERSECTS
18120 FIRESTONE TIRE & RUBBER CO (DIST SLS OFC) 665-8181
FIRESTONE RETREAD WAREHOUSE 665-9188

TP	Adjoining	Source
-	✓	R.L.Polk Co.

NE 169TH AVE 1967

154

168TH AV SE--CONTD
2733 ALLEN ALAN C ● 761-5787
2744 SMITH RICHD E 761-5878
---TAGGART ST INTERSECTS
2800 OLDS CLYDE N ● 761-5707
2805 WATSON JERRY K ● 761-5617
2821 CANNUCCNI JOHN L ● 761-5616
2822 DASH NORMAN A ● 761-5443
2837 ROWLES LE ROY G ● 761-2604
2848 BRYANT DORSEY F ● 761-5829
2849 FITTER EDITH MRS ●
---WOODWARD ST INTERSECTS
2909 LEUTWYLER WILBUR ● 761-5848
2910 VACANT
2920 VACANT
2921 GERKE JOE E ● 761-6207
3009 WAGNER LLOYD A ● 761-6147
3010 OSBORN LEONARD J ● 761-5098
3019 MC CLELLAND ROGER B ● 761-5331
3020 COGDILL JOHN C ● 761-6993
3034 CULLY GEO W ● 761-6236
---TIBBETTS ST INTERSECTS
3617 NIEBLING HARLAN M ● 665-8797
3620 FREDERICK GUREN K ●
---HAIG DR INTERSECTS
---LAFAYETTE ST INTERSECTS
3630 FLEMING DALE O ● 665-8887
3633 WHITEHEAD HARVEY A 665-0842
3640 ESTLICK HAROLD R ● 665-2762
3707 BRASUELL CHARLES D ● 665-3665
3710 WHITTENBERG DAVID J ● 665-7813
3719 VEENENDAAL DALE R ● 665-8294
3722 DUNN RONALD D ● 665-5210
3729 FAZZIO DONALD C ● 665-9672
3732 WILLIAMS RUBEN M ● 665-7695
3743 WHITNEY ROLAND R 665-4266
3744 VACANT
3805 BUCHANAN ROY L 665-0437
3806 JEANS RAYBURN L ● 665-2212
3815 NO RETURN
3818 SPENCER PAUL B ● 665-7887
3825 HADLEY BENJ O JR ● 665-9541
3835 MOCK MARGT R ● 665-7914
---FRANCIS ST INTERSECTS
3904 HILBURN OTTIS L ● 665-9313

124

168TH PL SE -FROM DEAD END 1 NORTH OF SE MARKET SOUTH, 2 EAST OF SE 162D AV

---ZIP CODE 97233
1330 ADAIR E J ● 252-5010
1335 SHUPP GLEN E 252-3840
1345 JOHNSON GENE ● 255-2986
1348 EMRA RICHD T 252-7476
---MARKET ST INTERSECTS
1405 YOUNG WALTER M ● 252-5058
1406 CLARK DONALD E ● 252-1623

155

169TH AV NE -FROM DEAD END 1 SOUTH OF NE EVERETT NORTH, 1 EAST OF NE 168TH AV

---ZIP CODE 97230
242 ROBBINS ELNORA MRS ● 255-4744
301 WELLS DONALD D ● 255-9360
306 WRIGHT ROBT L ● 252-4811
319 WILLIS ALBERT W ● 254-9963
322 SOOK DONALD L ● 252-5675
327 NO RETURN
---NE EVERETT CT INTERSECTS
330 DAVIS DONALD W ● 252-3170
344 HUGGINS RICHD E ● 255-3175

125

---HASSALO ST INTERSECTS
1011 VACANT
1610 STRAND LYNN A 254-8011
1715 ARTHUR WM G 255-0931
1720 SWANSON VERNON H 255-5786
1730 WERSCHKUL DUDLEY W ● 255-4547
1735 LEISETH VICTOR H ● 254-9785
1750 BERGEN BEN 253-0031
---WASCO ST INTERSECTS
1810 CRAMPTON NOBLE A ● 254-2600
1826 PIETZOLD RICHD A JR 253-0114
1834 JOHNSTON RAY J ● 253-4004
1842 TABER TERRY
1852 HERNDON ROBT C 254-9767
---HALSEY ST INTERSECTS
1906 YOUNG RUSSELL K ● 252-9773
2020 JENSEN ROBT R ● 254-3006
2040 SHAW HARRY D ● 252-5997
2100 JORDAN WM E ● 253-9034
2132 DEXTER JIMMIE L 255-0014
2225 WORLEY EVERETT R ● 254-0889
2245 STRANGE P
2300 HARMON WM D
2323 NO RETURN
2544 WILKES ELEMENTARY SCH MUS RM
---WILKES RD INTERSECTS

108

169TH AV SE -FROM SE TAYLOR SOUTH, 2 EAST OF 167TH AV

---ZIP CODE 97233
1020 GLESSNER LOUIS H 255-5541
1025 MILLS JESSE D ● 254-8760
1105 BAILEY RICHD H ● 253-3791
1110 CARLSTEDT LARRY
1115 CARLSON RAWLAND C ● 255-9310
1135 STONE RONALD E ● 255-3114
1145 JENSEN RICHD O ● 253-1963
---SALMON ST INTERSECTS
1205 JOHNSON C L
1206 FLYNN HARVEY P ● 254-8634.
1215 NO RETURN
FLOWERS BY NITA ARTIFICIAL FLOWERS & SUPS 255-5563
KNIGHT NITA MRS
1230 HOLMES ANDREW

140

---ZIP CODE 97236
3007 SCHROEDER RAY JR ● 761-6209
3010 STRICKLER JACK L ●
3015 DAWSON JOHN H ● 761-6347
3018 SPADY DONALD J ● 761-4994
3024 CUMMINS DONALD L ● 761-6712
3031 FITTER ALBERT E ● 761-6217
---TIBBETTS ST INTERSECTS
3100 STRUTZ MAXWELL K ● 761-6289
3114 RAAB HENRY L ● 761-4925
3125 BRIGHAM JAMES L ● 761-5174
3136 FESSLER EDW F ● 761-6431
3141 MONTGOMERY MICHL J ● 761-4875
---KELLY ST INTERSECTS

108

169TH DR SE -FROM SE ALDER SOUTH, 1 EAST OF SE 168TH AV

---ZIP CODE 97233
714 SMITH WARREN G 252-4512
728 AMUNDSON LAWRENCE 253-9436
729 GUSTAFSON DARWIN W ● 252-8509
742 CARTER WESLEY ●
745 NOMMENSEN ALF W ● 253-4554
807 EATON PAUL
817 WEST DON L ● 252-1131
820 LEACH JOHN M ● 253-0448
HOBBS PATRICIA MRS ●
827 LITSCHER R L ● 253-5100
837 MARTIN RICHD A ● 252-8846
840 SMITH DOUG R ● 252-7410
844 CAUGHLAN JAMES A ● 244-8704
847 STALEY BETTY A MRS ● 253-6104
850 MC KINDREE H LEE ● 254-8676

Wilkes Elementary School
17020 NE Wilkes Road
Portland, OR 97230

Inquiry Number: 4560329.3
March 09, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

3/09/16

Site Name:
Wilkes Elementary School
17020 NE Wilkes Road
Portland, OR 97230

Client Name:
GeoDesign Inc.
15575 SW Sequoia Parkway
Portland, OR 97224

EDR Inquiry # 4560329.3

Contact: Kevin Cline

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Wilkes Elementary School
Address: 17020 NE Wilkes Road
City, State, Zip: Portland, OR 97230
Cross Street:
P.O. # ReynoldsSD-5-02
Project: Wilkes Elementary School
Certification # ECFC-45F6-B397

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 # ECFC-45F6-B397

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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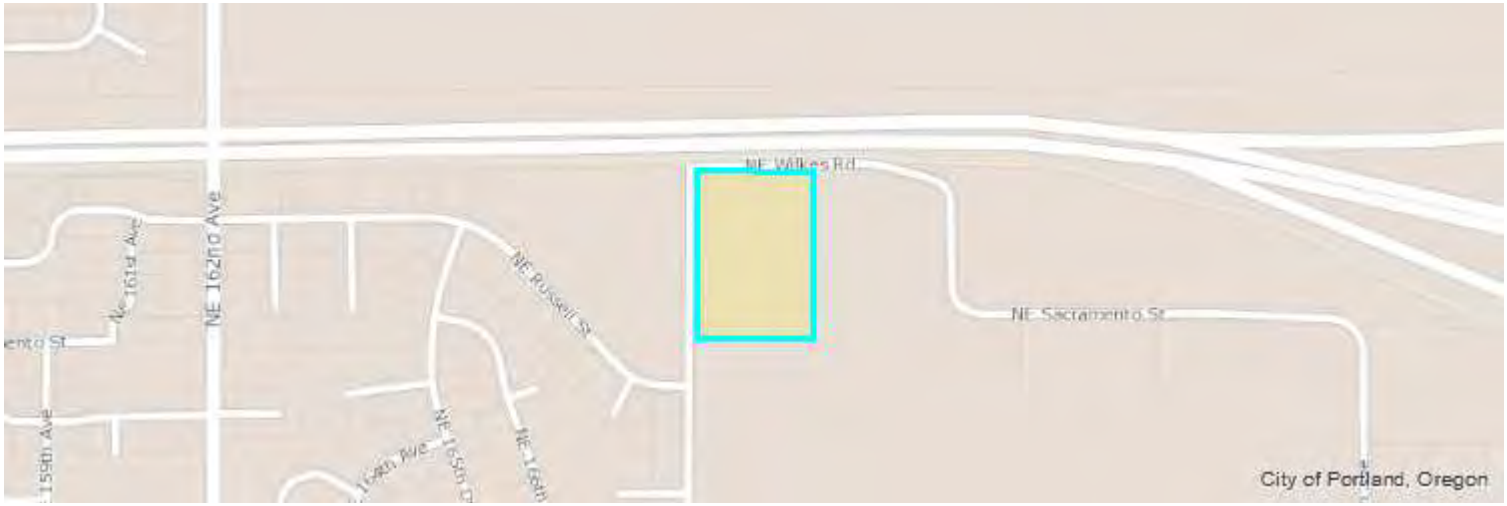
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17020 NE WILKES RD

GRESHAM, OR 97230

ASSESSOR

Address	17020 NE WILKES RD
Address2	GRESHAM, OR 97230
City	GRESHAM
Property ID	R321422
Tax Roll	SECTION 30 1N 3E, TL 900 5.33 ACRES
Use	PUBLIC BLDG
Lot	TL 900
County	Multnomah
State ID	1N3E30B 900
Alt Account Number	R943300060
Map Number	2747 OLD
Land Type	INDUSTRIAL LAND
Total Land Area	5.33 acres
Assessor Update Date	03/21/2016 7:21AM

Owner

Name	SCHOOL DISTRICT NO 7 ADMINISTRATION OFFICE
Type	OWNER (PRIMARY)
Address	1204 NE 201ST AVE
City	FAIRVIEW
State	OR
Zip Code	97024

Sales History & Deed

Type	INST
Instrument	BP10570368
Sale Price	$0.00

Improvements

Improvement Type	MISCELLANEOUS
Improvement Value	$2,361,350.00
Building Class	PUBLIC BLDG
Actual Year Built	1938
Number Of Segments	1

Segment Number	Segment Type	Class	Area Sq Ft
1	MAIN		24523
1	MAIN		1440
1	MAIN		3456
1	SURFACE PARKING		38000
2	FENCE		
3	CONCRETE		4250
1	MAIN		4000
1	MAIN		2040

Assessment History

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2015	$2,361,350.00	$648,760.00	$0.00	$3,010,110.00	$3,010,110.00	$0.00
2014	$2,071,360.00	$569,090.00	$0.00	$2,640,450.00	$2,640,450.00	$0.00

Year	Improvements	Land	Special Use	Real Market	Exemptions	Assessed
2013	$1,866,090.00	$512,700.00	$0.00	$2,378,790.00	$2,378,790.00	$0.00
2012	$2,006,550.00	$551,290.00	$0.00	$2,557,840.00	$2,557,840.00	$0.00
2011	$2,006,550.00	$551,290.00	$0.00	$2,557,840.00	$2,557,840.00	$0.00

Tax Districts

Code	Description
101	PORT OF PORTLAND
126	CITY OF GRESHAM
143	METRO
164	EAST MULT SOIL/WATER
170	MULTNOMAH COUNTY

Tax History

Year	Property Tax	Total Tax
2015	$0.00	$0.00
2014	$0.00	$0.00
2013	$0.00	$0.00
2012	$0.00	$0.00
2011	$0.00	$0.00

Tax Maps

Quarter Section	Size

Quarter Section	Size
1n3e30b (Current Property)	517.1 KB
1n3e30a	452.3 KB
1n3e30aa	50.0 KB
1n3e30bb	301.0 KB
1n3e30bc	355.1 KB

17020 NE WILKES RD, PORTLAND, OR, 97230

Multnomah County
T1N R3E S30
Latitude: 45.541264, Longitude: -122.48833
Approximate Elevation: 181 ft.

TAXLOT INFORMATION	
Tax Lot ID:	1N3E30B -00900
R Number:	R943300060
Tax Lot Size:	5.42 acres
Building Area	35459
Market Total Value	3010110
Land Use	COM
Year Built	1938
Sale Date	
Sale Price	Unavailable
Market Land Value	648760
Market Building Value	2361350
State General Property Class	231
County Tax Code	402
Site Address	17020 NE WILKES RD



POLITICAL BOUNDARIES	
Jurisdiction	Gresham
Neighborhood	Gresham - Wilkes East
Voting Precinct	4910
Metro Council District	1
Metro Councilor	Shirley Craddick
Metro Councilor Email	shirley.craddick@oregonmetro.gov

US Congressional District	3
Oregon House District	49
Oregon Senate District	25
LAND USE AND PLANNING	
Local Zoning	GI
Generalized Zoning	IND
Classified Zoning	IH
Watershed	Willamette River-Frontal Columbia River
Sub-Watershed	Columbia Slough-Frontal Columbia River
Basin	Willamette
Sub-Basin	Lower Willamette
Flood Plain	Outside
Wetland	Not in a wetland
Urban Growth Boundary	Inside
Urban/Rural Reserve	Not in a reserve
Reserve Name	Not in a reserve
USGS Quad Name	Camas
SERVICE DISTRICTS	
Garbage Hauler	Waste Management of Oregon
Commercial Hauler	Waste Management of Oregon
Dropbox Provider	Waste Management of Oregon
School District	Reynolds
School District Number	7
Oregon Dept. of Ed. Dist. ID	2182
Natl. Center for Ed. Statistics Dist. ID	4110520
Water District	Rockwood Water District
Park District	Not in a park district
Sewer District	Not in a sewer district
Fire District	Not in a fire district
Fire Management Zone	5203

CENSUS INFORMATION	
Census Tract	96.05
Census Block Group	1
Census Block Population (2010)	1658



Data Resource Center
600 Northeast Grand Avenue, Portland, OR 97232
503-797-1742
drc@oregonmetro.gov

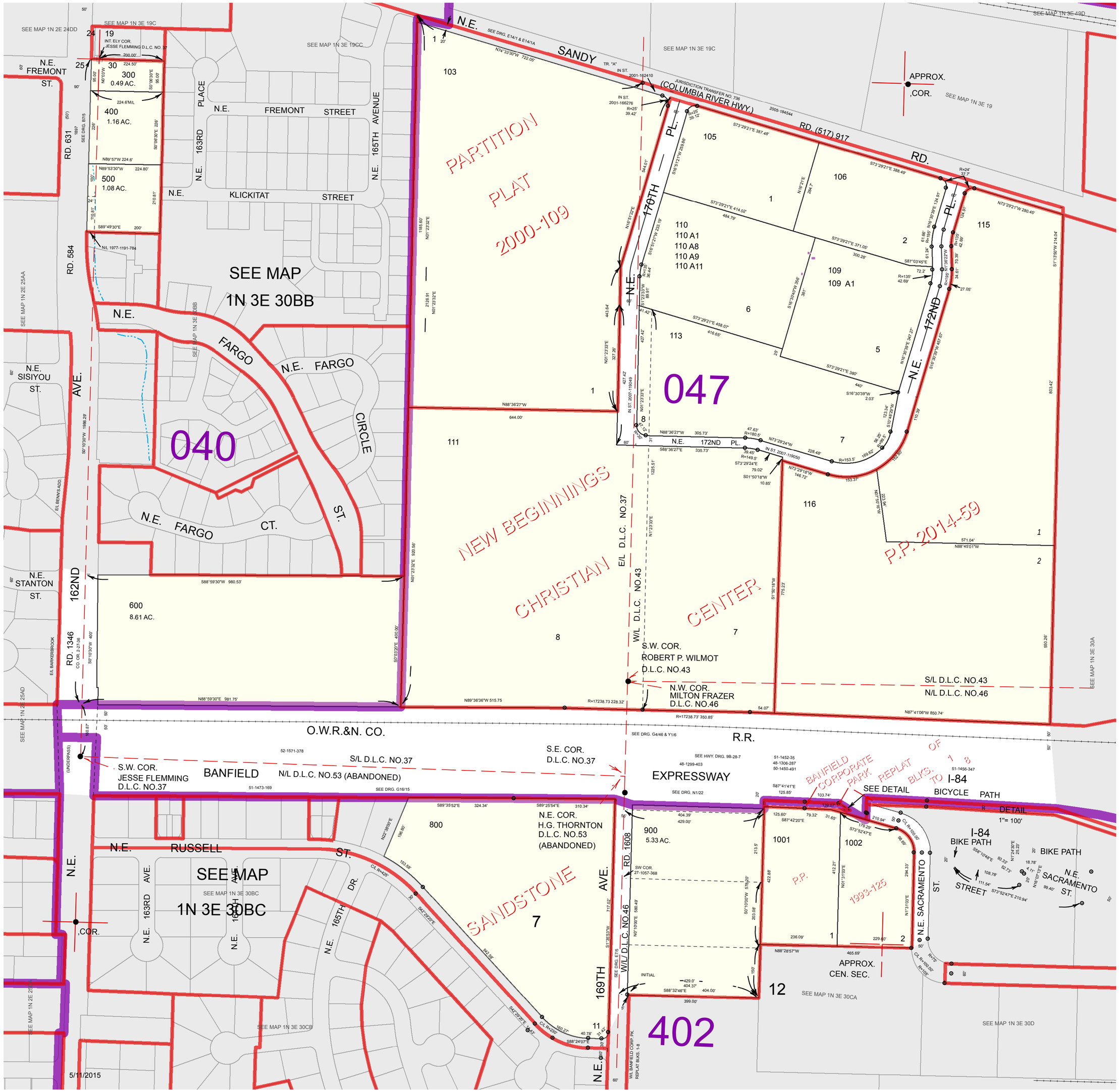
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THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSE ONLY

N.W.1/4 SEC.30 T.1N. R.3E. W.M.
MULTNOMAH COUNTY
1" = 200'

1N 3E 30B
GRESHAM



1N 3E 30B
GRESHAM

GRESHAM COMMUNITY PLAN MAP

REVISED: February 3, 2016

Civic District

- MDR-C — Moderate Density Residential - Civic
- HDR-C — High Density Residential - Civic
- TDM-C — Transit Development District: Medium Density - Civic
- TDH-C — Transit Development District: High Density - Civic

Commercial District

- NC — Neighborhood Commercial

Corridor District

- CC — Community Commercial
- MC — Moderate Commercial
- SC — Station Center
- SC-RJ — Station Center Ruby Junction Overlay
- RJTC — Rockwood Town Center
- CMF — Corridor Multi-Family
- CMU — Corridor Mixed Use

Downtown District

- DTM — Downtown Transit Mid-Rise
- DMU — Downtown Mixed Use
- DCL — Downtown Commercial Low-Rise
- DCC — Downtown Commercial Core
- DRL-1 — Downtown Residential Low-Rise-1
- DRL-2 — Downtown Residential Low-Rise-2
- DEM — Downtown Employment Mid-Rise

Industrial Lands

- GI — General Industrial
- HI — Heavy Industrial

Residential

- LDR-GB — Low Density Residential - Gresham Butte
- LDR-7 — Low Density Residential - 7
- LDR-5 — Low Density Residential - 5
- TR — Transition Residential
- TLDR — Transit Low Density Residential
- MDR-12 — Moderate Density Residential - 12
- MDR-24 — Moderate Density Residential - 24
- OFR — Office/Residential

Pleasant Valley District

- ESRA-PV — ESRA - Pleasant Valley
- LDR-PV — Low Density Residential - Pleasant Valley
- MDR-PV — Moderate Density Residential - Pleasant Valley
- HDR-PV — High Density Residential - Pleasant Valley
- TC-PV — Town Center - Pleasant Valley
- NC-PV — Neighborhood Commercial - Pleasant Valley
- MUE-PV — Mixed Use Employment - Pleasant Valley
- EC-PV — Employment Center - Pleasant Valley

Springwater District

- ESRA-SW — ESRA - Springwater
- VLDR-SW — Very Low Density Residential - Springwater
- LDR-SW — Low Density Residential - Springwater
- THR-SW — Townhouse Residential - Springwater
- NC-SW — Neighborhood Commercial - Springwater
- VC-SW — Village Commercial - Springwater
- RTI-SW — Research/Technology Industrial - Springwater
- IND-SW — Industrial - Springwater

- Water Body
- Public School
- Light Rail Line
- Rockwood Urban Renewal Area
- Gresham City Limits
- New Community Plan Area
- Non-Annexed Portion of Plan Area. Land Use Designations will be Effective Upon Annexation
- Existing Trail or Multi-Use Path
- Park
- Other cities
- County Boundary

DISCLAIMER:
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0 500 1,000 2,000 3,000 4,000 5,000 6,000 7,000 Feet

CITY OF GRESHAM

Pleasant Valley Plan Area

Kelley Creek Headwaters Plan Area

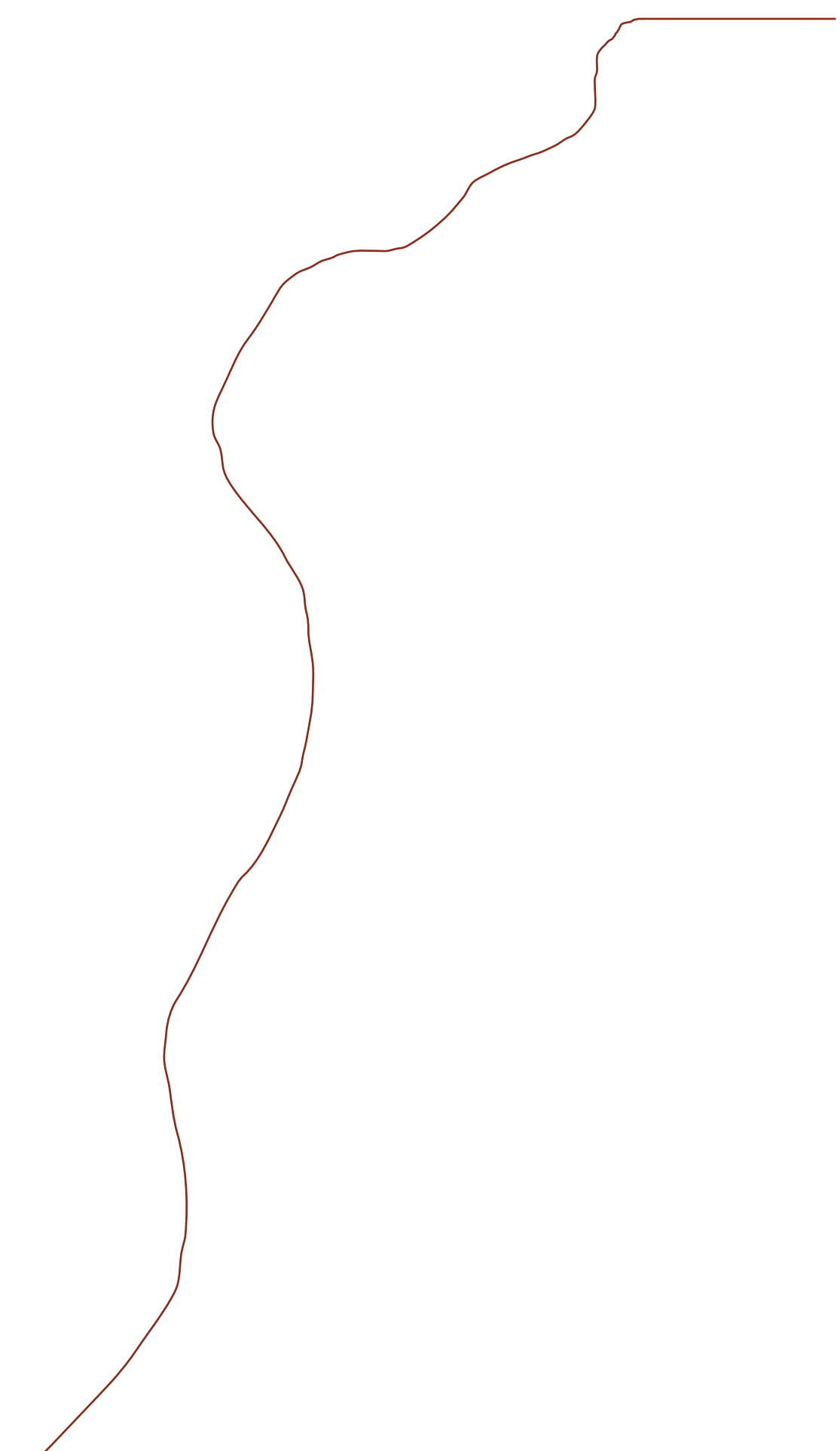
Springwater Plan Area

Columbia River
Blue Lake
Fairview Lake
Fairview
Wood Village
Troutdale
Portland
MULTNOMAH COUNTY
CLACKAMAS COUNTY

ACRONYMS AND ABBREVIATIONS

ACRONYMS AND ABBREVIATIONS

AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BGS	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
DEQ	Oregon Department of Environmental Quality
ECHO	Enforcement & Compliance History Information
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
FINDS	Facilities Index System/Facility Registry System
ICIS	Integrated Compliance Information System
LUST	Leaking Underground Storage Tank
MSL	mean sea level
ORS	Oregon Revised Statute
PCB	polychlorinated biphenyl
ROW	right-of-way
UIC	underground injection control
USGS	U.S. Geological Survey
UST	underground storage tank



GeoDesign Inc

REPORT OF GEOTECHNICAL ENGINEERING SERVICES

Wilkes Elementary School
17020 NE Wilkes Road
Gresham, Oregon

For
Reynolds School District #7
April 26, 2016

GeoDesign Project: ReynoldsSD-5-01

GeoDesign INC

April 26, 2016

Reynolds School District #7
1204 NE 201st Avenue
Fairview, OR 97024

Attention: Ms. Rachel Hopper

Report of Geotechnical Engineering Services
Wilkes Elementary School
17020 NE Wilkes Road
Gresham, Oregon
GeoDesign Project: ReynoldsSD-5-01

GeoDesign, Inc. is pleased to submit our report of geotechnical engineering services associated with reconstruction of Wilkes Elementary School. Wilkes Elementary School is located at 17020 NE Wilkes Road in Gresham, Oregon. Our services for this project were conducted in accordance with our proposal dated January 5, 2016.

We appreciate the opportunity to be of continued service to you. Please call if you have questions regarding this report.

Sincerely,

GeoDesign, Inc.

George Saunders, P.E., G.E.
Principal Engineer

cc: Mr. Robert Collins, Day CPM Services (via email only)

VCL:GPS:kt
Attachments
Document ID: ReynoldsSD-5-01-042616-geor.docx
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EXECUTIVE SUMMARY

The following is a summary of our findings and recommendations for design and construction of the proposed school development. This executive summary is limited to an overview of the project. We recommend that the report be referenced for a more thorough description of the subsurface conditions and geotechnical recommendations for the project.

- Based on the assumed foundation loads, the proposed structure can be supported on shallow foundations bearing on firm native soil or soil compacted as structural fill as presented in the "Shallow Foundations" section of this report.

- Up to 3 feet of fill was encountered in the exploration located in the proposed parking area. Fill was not encountered in the explorations within the proposed building footprint. However, if encountered, we recommend that this fill material be removed from under all foundation elements. As discussed in the "Site Preparation" section of this report, we recommend that in the proposed pavement area where fill is encountered at pavement subgrade, the upper 12 inches of the subgrade should either be removed and replaced with structural fill or the subgrade scarified and compacted as structural fill.

- The site will require demolition of existing asphalt pavements, curbs, and other site features. Wet, sensitive subgrade should be anticipated. A more detailed description of our recommendations is provided in the "Construction Considerations" section of this report.

- The on-site soil can be sensitive to small changes in moisture content and difficult, if not impossible, to adequately compact during wet weather or when the moisture content of the soil is more than a couple of percent above the optimum required for compaction. As discussed in this report, the moisture content of the soil currently is above optimum, and drying will be required if used as structural fill.

- The on-site soil will provide inadequate support for construction equipment during periods of persistent rainfall. Granular haul roads and working pads or cement amendment should be employed if earthwork will occur during the wet winter months.

- Based on our infiltration testing results, infiltration is anticipated to be poor in the dense gravel below the perched groundwater table and is more favorable at a depth above the perched groundwater table, within the gravel unit.

- Difficult excavation should be assumed in the underlying gravel and cobbles. This soil can also include boulders.

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1.0 INTRODUCTION

GeoDesign, Inc. is pleased to submit this geotechnical engineering report for the proposed reconstruction of Wilkes Elementary School. Wilkes Elementary School is located on the southeast corner of NE Wilkes Road and NE 169th Avenue, on the south side of the Interstate 84, in Gresham, Oregon. Figure 1 shows the site relative to existing topographic and physical features. Figure 2 shows the proposed site layout and our approximate exploration locations.

The logs and laboratory testing results are presented in Appendix A, and a log obtained from OWRD for nearby explorations is presented in Appendix B. Our site-specific seismic evaluation of the site is presented in Appendix C, and the Master Plan for the proposed reconstruction of the school is presented in Appendix D. Acronyms and abbreviations used herein are defined at the end of this document.

1.1 PROJECT UNDERSTANDING

The school property is currently occupied by the school building on the north portion of the site. The building is a single-story structure and the west portion of the building has a basement. An AC-paved parking lot is on the north side of the school building. On the west side of the main school building is a separate building (storage). On the south side of the school building are a covered basketball court, play areas, and four portable classrooms. The grass-covered playfields occupy the south portion of the site.

Based on our review of Attachment F of the *Site Assessments & Master Plan Concepts* document, we understand that the proposed plan is to construct a new school building on the existing playfields at the south portion of the site. Following construction of the new building, the existing school building will be demolished and new playfields and parking lots will be constructed where the former school building resided. We understand that the new building will be two stories and will not have a basement. The Master Plan for the school is presented in Appendix D. Although stormwater management plans were not known at the time of this report, our scope of work included obtaining field-measured infiltration rates to evaluate the feasibility of stormwater disposal on site. Based on our review of a UIC assessment (PBS, 2015), we understand that there are two UICs located on the south side of the portable classrooms. The report indicates that the one of the UICs is a dry well approximately 15 feet deep and the other UIC is a french drain approximately 3.5 feet deep. We conducted infiltration tests at similar depths as documented for these existing UICs.

We prepared a Phase I ESA for the Wilkes Elementary School (GeoDesign, 2016), which was provided under separate cover. During our Phase I ESA, we observed two fill ports for a UST at the northwest corner of the cottage. We concluded that this could be a heating oil UST that is out of service and should be decommissioned according to federal, state, and local regulations. We understand that PBS decommissioned a heating oil UST in 2001. The location of the UST is not known, but we concluded that it was likely located in a concrete vault south of the main building. In addition, we understand from conversations with school personnel during our Phase I ESA that there is a french drain infiltration gallery between the gym and the cottage (storage building) as well as a vault on the south side of the main building. Furthermore, some work was recently completed to remediate flooding issues on site.

Foundation loads were not available at the time of this report; however, based on our experience with prior school buildings, we anticipate that the maximum column loads will be approximately 150 kips and the maximum wall loads will be 3 to 4 kips per linear foot. Maximum floor slab loads are anticipated to be 100 psf. Cuts and fills on the site are anticipated to be no more than a few feet each.

2.0 SCOPE OF SERVICES

The purpose of our geotechnical engineering services was to characterize site subsurface conditions and provide geotechnical engineering recommendations for use in design and construction of the proposed development. Our scope of work included the following.

Geotechnical Exploration

- Reviewed readily available published geologic data and our in-house files for existing information on subsurface conditions in the site vicinity.
- Completed the following explorations:
  - Drilled six borings (B-1 through B-6) to depths ranging from 6.0 to 16.5 feet BGS.
  - Performed infiltration testing in two boring locations at depths of 5.5 and 15.6 feet BGS.
- Classified the material encountered in the borings, and maintained a detailed log of each boring.
- Completed laboratory analyses on disturbed and undisturbed soil samples obtained from the borings as follows:
  - Ten moisture content determinations in general accordance with ASTM D 2216
  - Three percent fines determination in general accordance with ASTM C 117 or ASTM D 1140
- Developed 20-year pavement designs for car and bus loads.
- Provided recommendations for site preparation and grading, including demolition, temporary and permanent slopes, fill placement criteria, suitability of on-site soil for fill, subgrade preparation, and recommendations for wet weather construction.
- Provided foundation support recommendations for the proposed structure. Our recommendations include preferred foundation type, allowable bearing capacity, and lateral resistance parameters.
- Provided recommendations for use in design of conventional retaining walls, including backfill and drainage requirements and lateral earth pressures.
- Evaluated groundwater conditions at the site, and provided general recommendations for dewatering during construction and subsurface drainage.
- Provided recommendations for seismic design factors in accordance with the procedures outlined in the 2012 IBC and 2014 SOSSC.
- Prepared this geotechnical engineering report that presents our findings, conclusions, and recommendations.

Site-Specific Seismic Evaluation

The 2014 SOSSC requires a seismic hazard investigation for "special occupancy structures." Special occupancy structures include “buildings for every public, private or parochial school

through secondary level or day care centers with a capacity greater than 250 individuals." Our services included a seismic hazard investigation. The specific scope of our services is summarized as follows:

- Reviewed available seismic hazard maps, published dynamic soil properties in the vicinity, and geologic maps and geotechnical reports discussing subsurface conditions.
- Evaluated design-level base rock motions at the site using both probabilistic and deterministic methods.
- Selected and modified existing analogous earthquake records to model expected base rock motions.
- Modeled the soil response at the site using the computer program EZFrisk, and conducted sensitivity analyses of model parameters, including soil properties, soil thicknesses, and base rock motions.
- Provided response spectra at the ground surface and primary foundation elevations, as well as PGAs.
- Evaluated liquefaction potential and other pertinent and code-identified hazards and their potential effect on the proposed development.
- The results of our site-specific seismic evaluation are presented in Appendix C.

3.0 SITE CONDITIONS

3.1 GEOLOGIC SETTING

The site is located in the central part of the Portland Basin physiographic province, which is bound by the Tualatin Mountains to the west and south and the Cascade Range to the east and north. The Portland Basin is described as a fault-bounded, pull-apart basin that was formed by two northwest trending fault zones (Pratt et al., 2001). The Portland Hills fault zone trends along the west side of the basin and the Frontal fault zone trends along the east side of the basin near Lacamas Lake, east of Vancouver, Washington. The Portland Basin is underlain by volcanic bedrock and contains a thick sequence of sedimentary deposits that fill the structural basin.

The surface geologic unit mapped at the site consists of a sequence of late-Pleistocene Age (15,000 to 10,000 years before present) cataclysmic glacial flood deposits that consist of unconsolidated stratified gravel, sand, and silt that locally contains boulders (glacial erratics or drop stones). This unit correlates to the Missoula Flood events that scoured eastern Washington and deposited thick gravel bars at the eastern portion of the Portland Basin where the Columbia River exits the Columbia Gorge (Evarts and O'Connor, 2008). Based on geologic mapping and deep water well logs, the thickness of the gravel flood deposits are reported to extend to approximately 75 feet BGS in the site vicinity (Gannet and Caldwell, 1998).

The flood deposits are underlain by the Pliocene to Pleistocene Age (5 million to 2 million years before present) Troutdale Formation, which consists of interbedded hyaloclastic sandstone and conglomerate units (Evarts and O'Connor, 2008). The Troutdale Formation is estimated to extend to depths of approximately 350 feet BGS in the site vicinity and represents extensive fluvial deposition from the ancient Columbia River where it enters the eastern Portland Basin.

The Troutdale Formation is underlain by the late Miocene to Pliocene Age (11 million to 5 million years before present) Sandy River Mudstone, which consists of consolidated and laminated silty clay, micaceous sand, siltstone, mudstone, and claystone (Evarts and O'Connor, 2008). Based on geologic mapping and deep water well logs, the Sandy River Mudstone is estimated to extend to depths of approximately 1,400 feet BGS in the site vicinity (Gannet and Caldwell, 1998).

The Sandy River Mudstone is underlain by the Miocene Age (20 million to 10 million years before present) Columbia River Basalt Group, which is a series of basalt flows that originated from southeastern Washington and northeastern Oregon. The Columbia River Basalt Group is considered the geologic basement unit for this report.

3.2 SURFACE CONDITIONS

The site is located on the east side of NE 169th Avenue and on the south side of NE Wilkes Road. As discussed in the "Project Understanding" section of this report, the existing school buildings and parking lot are located at the north portion of the site and the grass-covered playfields occupy the south portion of the site. The main structure is accompanied by several smaller structures to the south and west sides. Vegetation at the site consists primarily of grass and other low-lying vegetation, with few trees on the property. The site is relatively flat, with ground surface elevations ranging from approximately 183 to 185 feet.

3.3 SUBSURFACE CONDITIONS

3.3.1 General

We explored subsurface conditions at the site by drilling six borings (B-1 through B-6) to depths ranging from 6.0 to 16.5 feet BGS. We conducted infiltration testing in borings B-1 and B-2 at depths of 15.6 feet BGS and 5.5 feet BGS, respectively. The approximate exploration locations are shown on Figure 2. The boring logs and laboratory test results are presented in Appendix A.

Our explorations generally encountered pavement or grass underlain by variable fill underlain by silt and in turn underlain by gravel and sand. The following sections summarize the subsurface units encountered.

3.3.2 Surface Root Zone and Pavement

Borings B-1 through B-5 were drilled in grass-covered areas of the site. The root zone encountered was approximately 2 to 3 inches thick. Boring B-6 was drilled in the paved area of the site. The AC was 3.5 inches thick and underlain by 6.5 inches of aggregate base.

3.3.3 Undocumented Fill

Undocumented fill material was encountered in boring B-1, which was drilled in the grass-covered area south of the cottage building and west of the covered basketball court. The fill extends to approximately 3 feet BGS and consists of silt with minor sand and trace organics consisting of wood debris.

3.3.4 Silt

Soft to medium stiff silt with varying amounts of sand was encountered in all explorations, with the exception of boring B-3, from the ground surface or beneath the fill and extends to depths

ranging between 4.5 and 6.0 feet BGS. Laboratory testing indicates that the moisture content of the silt generally ranged between 21 and 32 percent at the time of our explorations.

3.3.5 Gravel and Sand

Dense to very dense gravel with varying amounts of silt, sand, and cobbles was encountered in all of the borings from the ground surface (boring B-3) or beneath the silt and extends to the maximum depths explored (16.5 feet BGS). In boring B-4, dense, clayey sand with silt and gravel was encountered at a depth of approximately 7.5 feet BGS and extended to a depth of approximately 14 feet BGS. At the time of our explorations, the tested moisture content of the gravel varied between 18 and 27 percent. The drilling resistance and characteristics indicate that cobbles and boulders are present within the gravel and sand.

3.3.6 Groundwater

Groundwater was encountered at depths of 7.5, 10, and 12.5 feet BGS in borings B-1, B-3, and B-4, respectively. We anticipate these are perched groundwater levels. Based on our review of water well logs on file with OWRD and projects completed in the site vicinity, perched groundwater was generally encountered within approximately 5 to 10 feet of the ground surface. The estimated depth to groundwater in the site vicinity is approximately 90 to 100 feet BGS according to a recent compilation of data by the City of Portland and Gresham, Clackamas, and Multnomah Counties (Snyder, 2008). The depth to groundwater may fluctuate in response to seasonal changes, prolonged rainfall, changes in surface topography, and other factors not observed in this study.

3.4 INFILTRATION TESTING

Infiltration testing was completed to assist in the evaluation of potential stormwater infiltration facilities for the project. Plans were not known at the time of this report. We conducted infiltration testing in the borings at depths similar to those of the existing UICs on site, as documented by the UIC assessment (PBS, 2015). Infiltration testing was conducted at 15.6 feet BGS in boring B-1 and at 5.5 feet BGS in boring B-2.

Representative samples were collected at the infiltration test depth for grain-size analysis. Table 1 summarizes the infiltration test results and fines content determinations. The exploration logs and laboratory test results are presented in Appendix A.

Table 1. Infiltration Rates

Location	Depth (feet BGS)	Material	Infiltration Rate (inches/hour)	Fines Content[1] (percent)
B-1	15.6	GRAVEL with Clay, Silt, and Sand	~0	11
B-2	5.5	GRAVEL with Sand, Silt, and Cobbles	15	12

1. Fines content: material passing a U.S. Standard No. 200 Sieve.

The results of our infiltration testing indicate very slow to no infiltration at the deeper depth and better infiltration capacity at the shallower depths. Although both tests were completed in the gravel, the poor infiltration at the deeper depth was likely due to the fine-grained matrix in the gravel as well as the presence of perched groundwater.

The infiltration rates provided above were measured rate with no factor of safety. Correction factors should be applied to the measured infiltration rate by the civil engineer during design to account for the degree of long-term maintenance and influent/pre-treatment control, as well as the potential for long-term clogging due to siltation and bio-buildup, depending on the proposed length, location, and type of infiltration facility. If built, we recommend that the installation of the infiltration facility be observed by a qualified geotechnical engineer to confirm that the soil conditions are consistent with our observations during our explorations.

4.0 CONCLUSIONS

Based on the results of our subsurface explorations and engineering analyses, it is our opinion that the site can be developed as proposed. A summary of the geotechnical considerations for the project are summarized in the Executive Summary. Our specific recommendations are provided in the following sections of this report.

5.0 DESIGN

5.1 GENERAL

The following sections provide our design recommendations for the project. All site preparation and structural fill should be prepared as recommended in the "Construction" section of this report.

5.2 SHALLOW FOUNDATIONS

5.2.1 General

Based on the results of our explorations and analysis, the proposed school building and other small structures associated with the proposed school can be supported by conventional spread footings resting on granular pads underlain by undisturbed native soil or structural fill overlying firm native soil. Fill soil was not encountered in the borings drilled within the proposed building footprint. Foundations should not be established on undocumented fill, soft soil, or soil containing deleterious material. If present, this material should be removed and replaced with structural fill.

The granular pads should be a minimum of 4 inches thick and extend 6 inches beyond the margins of the footings for every foot excavated below the base grade of the footing. The granular pads should consist of imported granular material, as defined in the "Structural Fill" section of this report. The imported granular material should be compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557, or, as determined by one of our geotechnical staff, until well-keyed. We recommend that a member of our geotechnical staff observe the prepared footing subgrade.

5.2.2 Dimensions and Capacities

Continuous wall and isolated spread footings should be at least 18 and 24 inches wide, respectively. The bottom of exterior footings should be at least 18 inches below the lowest adjacent exterior grade. The bottom of interior footings should be established at least 12 inches below the base of the slab.

Footings bearing on subgrade prepared as recommended above should be sized based on an allowable bearing pressure of 2,500 psf. This is a net bearing pressure; the weight of the footing and overlying backfill can be ignored in calculating footing sizes. The recommended allowable bearing pressure applies to the total of dead plus long-term live loads and may be increased by 50 percent for short-term loads such as those resulting from wind or seismic forces.

5.2.3 Resistance to Sliding

Lateral loads on footings can be resisted by passive earth pressure on the sides of the structures and by friction on the base of the footings. Our analysis indicates that the available passive earth pressure for footings confined by native soil and structural fill is 300 pcf, modeled as an equivalent fluid pressure. Adjacent floor slabs, pavements, or the upper 12-inch depth of adjacent unpaved areas should not be considered when calculating passive resistance. The passive resistance should be reduced to 180 pcf below groundwater (5 feet BGS).

For footings in contact with native soil, a coefficient of friction equal to 0.30 may be used when calculating resistance to sliding. For footings in contact with granular fill, a coefficient of friction equal to 0.40 may be used when calculating resistance to sliding.

5.2.4 Subgrade Observation

All footing and floor subgrades should be evaluated by a representative of GeoDesign to evaluate the bearing conditions. Observations should also confirm that all loose or soft material, organics, unsuitable fill, prior topsoil zones, and softened subgrades (if present) have been removed. Localized deepening of footing excavations may be required to penetrate deleterious material.

5.3 FLOOR SLABS

Satisfactory subgrade support for building floor slabs supporting up to 100 psf areal loading can be obtained on the existing undisturbed native silt or on structural fill. To help reduce moisture transmission and slab shifting, we recommend a minimum 6-inch-thick layer of floor slab base rock be placed and compacted over a subgrade that has been prepared in conformance with the "Site Preparation" section of this report. The floor slab base rock should meet the requirements in the "Structural Fill" section of this report and be compacted to at least 95 percent of ASTM D 1557.

While groundwater is unlikely to be encountered within the slab subgrade material, the native soil is fine grained and will tend to maintain a high moisture content. In the areas where moisture-sensitive floor slab and flooring will be installed, the installation of a vapor barrier is warranted in order to reduce the potential for moisture transmission through, and efflorescence

growth on, the slab and flooring. In addition, flooring manufacturers often require vapor barriers to protect flooring and flooring adhesives and will warrant their product only if a vapor barrier is installed according to their recommendations.

We recommend that a vapor barrier be installed in all floor slab areas established less than 1 foot above existing grade. Several vapor barrier options are available. If Stego Wrap, or other system where the floor slab concrete is directly over the vapor barrier, is being considered, we recommend that the structural engineer be contacted to determine if the mix design for the concrete should be modified assuming the above-referenced construction sequence. Actual selection and design of an appropriate vapor barrier, if needed, should be based on discussions among members of the design team.

Slabs should be reinforced according to their proposed use and per the structural engineer's recommendations. Load-bearing concrete slabs may be designed assuming a modulus of subgrade reaction, k, of 150 psi per inch.

5.4 RETAINING STRUCTURES

5.4.1 Assumptions

Our retaining wall design recommendations are based on the following assumptions: (1) the walls consist of conventional, cantilevered retaining walls, (2) the walls are less than 8 feet in height, (3) the backfill is drained, and (4) the backfill has a slope flatter than 4H:1V. Re-evaluation of our recommendations will be required if the retaining wall design criteria for the project varies from these assumptions.

5.4.2 Wall Design Parameters

For unrestrained retaining walls, an active pressure of 35 pcf equivalent fluid pressure should be used for design. For embedded building walls, a superimposed seismic lateral force should be calculated based on a dynamic force of $7.0H^2$ pounds per lineal foot of wall, where H is the height of the wall in feet, and applied a distance of 0.6H from the base of the wall. Where retaining walls are restrained from rotation prior to being backfilled, a pressure of 55 pcf equivalent fluid pressure should be used for design.

If surcharges (e.g., retained slopes, building foundations, vehicles, steep slopes, terraced walls, etc.) are located within a horizontal distance from the back of a wall equal to twice the height of the wall, then additional pressures will need to be accounted for in the wall design. Our office should be contacted for appropriate wall surcharges based on the actual magnitude and configuration of the applied loads.

The base of the wall footing excavations should extend a minimum of 18 inches below lowest adjacent grade. The footing excavations should then be lined with a minimum 6-inch-thick layer of compacted imported granular material, as described in the "Materials" section of this report.

The wall footings should be designed in accordance with the guidelines provided in the appropriate portion of the "Shallow Foundations" section of this report.

5.4.3 Wall Drainage and Backfill

The above design parameters have been provided assuming that back-of-wall drains will be installed to prevent buildup of hydrostatic pressures behind all walls. If a drainage system is not installed, then our office should be contacted for revised design forces.

The backfill material placed behind the walls and extending a horizontal distance of ½H, where H is the height of the retaining wall, should consist of retaining wall select backfill placed and compacted in conformance with the "Structural Fill" section of this report.

A minimum 6-inch-diameter perforated collector pipe should be placed at the base of the walls. The pipe should be embedded in a minimum 2-foot-wide zone of angular drain rock that is wrapped in a drainage geotextile fabric and extends up the back of the wall to within 1 foot of the finished grade. The drain rock and drainage geotextile fabric should meet specifications provided in the "Materials" section of this report. The perforated collector pipes should discharge at an appropriate location away from the base of the wall. The discharge pipe(s) should not be tied directly into stormwater drain systems, unless measures are taken to prevent backflow into the drainage system of the wall.

Settlement of up to 1 percent of the wall height commonly occurs immediately adjacent to the wall as the wall rotates and develops active lateral earth pressures. Consequently, we recommend that construction of flatwork adjacent to retaining walls be postponed at least four weeks after backfilling of the wall, unless survey data indicates that settlement is complete prior to that time.

5.5 SEISMIC DESIGN CONSIDERATIONS

5.5.1 IBC Parameters

Based on our explorations, the following design parameters can be applied if the building is designed using the applicable provisions of the 2012 IBC and 2014 SOSSC. The parameters in Table 2 are appropriate for code-level seismic design. We performed a site-specific seismic study for this project. The results of this study, including liquefaction analyses, are presented in Appendix C. As discussed in Appendix C, liquefaction will not present a design concern for the project.

Table 2. IBC Seismic Design Parameters

Seismic Design Parameter	Short Period (T_s = 0.2 second)	1 Second Period (T_1 = 1.0 second)
MCE Spectral Acceleration, S	S_s = 0.98 g	S_1 = 0.40 g
Site Class	C	
Site Coefficient, F	F_a = 1.01	F_v = 1.40
Adjusted Spectral Acceleration, S_M	S_{MS} = 0.99 g	S_{M1} = 0.56 g
Design Spectral Response Acceleration Parameters, S_D	S_{DS} = 0.66 g	S_{DS} = 0.37 g
Design Spectral PGA	0.26 g	

5.6 PAVEMENTS

5.6.1 Design Assumptions and Parameters

Traffic at the proposed school facility will consist primarily of passenger cars and buses. At the time this report was prepared we had not been provided with anticipated traffic counts. However, bus traffic provided to us by BLRB Architects indicates the new school will require eight standard school busses and two special needs school busses per day. We anticipate that AC pavements will be used for passenger car drive aisles and parking areas. Pavements should be installed on undisturbed native subgrade, scarified and re-compacted soil, or new engineered fills described in the "Site Preparation" and "Structural Fill" sections of this report.

Our pavement recommendations are based on the following assumptions:

- 20-year design life for AC.
- A resilient modulus of 20,000 psi was estimated for the aggregate base.
- Initial and terminal serviceability indices of 4.2 and 2.0 for AC.
- Reliability and standard deviation of 85 percent and 0.45 for AC respectively.
- Structural coefficient of 0.42 and 0.10 for the AC and aggregate base, respectively.
- The number of buses and trucks indicated below, plus trucks are assumed to be 50 percent two-axle and 50 percent three-axle trucks. We have not included a growth factor. Analysis of alternative traffic assumptions can be completed if requested.
- A resilient modulus of 4,500 psi for subgrade prepared in accordance with the "Site Preparation" portion of the report.

If any of these assumptions are incorrect, our office should be contacted with the appropriate information so that the pavement designs can be revised.

5.6.2 Flexible AC Pavement Recommendations

Based on the traffic assumptions provided above, we recommend the AC pavement sections in Table 3.

Table 3. Recommended Standard Pavement Sections

Pavement Use	Busses per Day	Trucks per Day[1]	ESALs	AC Thickness (inches)	Aggregate Base Thickness (inches)
Automobile-Only Parking	0	0	10,000	2.5	9.0
Automobile-Only Drive Aisles	0	0	50,000	3.5	10.0
Bus Areas	10	10	90,000	4.0	11.0

Trucks assumed to be 50 percent two-axle and 50 percent three-axle trucks. Busses are assumed to be as discussed above.

If the subgrade is cement amended to the thicknesses indicated below and the amended soil achieves a seven-day unconfined compressive strength of at least 100 psi, then the pavements can be constructed as recommended in Table 4.

Table 4. Recommended Pavement Sections Using Cement Amendment

Pavement Use	Busses per Day	Trucks per Day[1]	ESALs	AC Thickness (inches)	Aggregate Base Thickness (inches)	Cement Amendment[2] (inches)
Automobile Parking	0	0	10,000	2.5	4.0	12.0
Automobile-Only Drive Aisles	0	0	50,000	3.5	4.0	12.0
Bus Areas	10	10	90,000	4.0	4.0	12.0

1. Trucks assumed to be 50 percent two-axle and 50 percent three-axle trucks.
2. Assumes a minimum seven-day unconfined compressive strength of 100 psi.

All thicknesses are intended to be the minimum acceptable. The design of the recommended pavement section is based on the assumption that construction will be completed during an extended period of dry weather. Wet weather construction could require an increased thickness of aggregate base. In addition, to prevent strength loss during curing, cement-amended soil should be allowed to cure for at least four days prior to construction traffic or placing the base rock. Lastly, the amended subgrade should be protected with a minimum of 4 inches of base rock prior to construction traffic access.

Construction traffic should be limited to non-building, unpaved portions of the site or haul roads. Construction traffic should not be allowed on new pavements. If construction traffic is to be allowed on newly constructed road sections, an allowance for this additional traffic will need to be made in the design pavement section.

The AC, aggregate base, and cement amendment should meet the requirements outlined in the "Materials" section of this report.

5.7 DRAINAGE

5.7.1 General

Perched groundwater is typically encountered in the fine-grained soil at the site and the gravel with the fine-grained matrix, particularly during or after periods of heavy rainfall.

5.7.2 Surface

Where possible, the finished ground surface around the building should be sloped away from the structures at a minimum 2 percent gradient for a distance of at least 5 feet. Downspouts or roof scuppers should discharge into a storm drain system that carries the collected water to an appropriate stormwater system. Trapped planter areas should not be created adjacent to the building without providing means for positive drainage (e.g., swales or catch basins).

5.7.3 Foundation Drains

We recommend that perimeter foundation drains be installed where the finished floor grade will be less than 2 feet above existing grades. The foundation drains should be constructed at a minimum slope of approximately ½ percent and pumped or drained by gravity to a suitable discharge. The perforated drainpipe should not be tied to a stormwater drainage system without backflow provisions. The foundation drains should consist of 4-inch-diameter perforated drainpipe embedded in a minimum 2-foot-wide zone of crushed drain rock that extends to the ground surface. The invert elevation of the drainpipe should be installed at least 18 inches below the elevation of the floor slab. The drain rock and geotextile should meet the requirements specified in the "Materials" section of this report. The drain rock and geotextile should extend up the side of embedded walls to within a foot of the ground surface, geotextile wrapped over the top of the drain rock, as recommended in the "Retaining Structures" section of this report.

5.8 PERMANENT SLOPES

Permanent cut or fill slopes on the site should not exceed a gradient of 2H:1V, unless specifically evaluated for stability. Slopes that will be maintained by mowing should not be constructed steeper than 3H:1V. Slopes should be planted with appropriate vegetation to provide protection against erosion as soon as possible after grading. Surface water runoff should be collected and directed away from slopes to prevent water from running down the face of the slope.

6.0 CONSTRUCTION

6.1 SITE PREPARATION

6.1.1 Demolition

Site development will include demolition and removal of existing structures or utilities that may be present underneath areas to be improved. Demolition includes complete removal of the buildings, concrete slabs, and footings. In addition to the buildings, former USTs and other storage tanks, as well as former UICs within proposed structural areas should be abandoned per

state and local regulations prior to site development. Existing utilities that will interfere with earthwork or will be located beneath the proposed structure should be removed prior to construction.

In general, demolished material should be transported off site for disposal. Demolished concrete may be used in structural fill provided it is used as recommended in the "Recycled On-Site Material" section of this report.

Excavations should be performed as recommended in the "Construction Considerations" section of this report. Excavations left from demolition and removal of existing structures should be backfilled with compacted structural fill in accordance with the recommendations in the "Structural Fill" section of this report.

6.1.2 Stripping and Grubbing

The existing topsoil zone should be stripped and removed from all fill areas. Based on our explorations, the average depth of stripping in areas that are grass covered or landscaped will be approximately 2 to 3 inches, although greater stripping depths may be required to remove localized zones of loose or organic soil. The actual stripping depth should be based on field observations at the time of construction. Stripped material should be transported off site for disposal or used in landscaped areas.

Trees and shrubs should be removed from fill areas. In addition, root balls should be grubbed out to the depth of the roots, which could exceed 3 feet BGS. Depending on the methods used to remove the root balls, considerable disturbance and loosening of the subgrade could occur during site grubbing. We recommend that soil disturbed during grubbing operations be removed to expose firm, undisturbed subgrade. The resulting excavations should be backfilled with structural fill.

6.1.3 Fill Improvement

We observed approximately 3 feet of fill composed of soft silt with minor sand and trace woody debris in boring B-1, which was drilled in the west portion of the site, in the location of the proposed parking area. If fill is encountered in the pavement subgrade, the upper 12 inches of the subgrade should be improved by scarifying and re-compacting or by removing and replacing with compacted structural fill. It may also be possible to cement amend the existing subgrade. Work should be performed in accordance with the "Materials" section of this report.

6.1.4 Subgrade Evaluation

Upon completion of stripping and subgrade stabilization, and prior to the placement of fill or pavement improvements, the exposed subgrade should be evaluated by proof rolling. The subgrade should be proof rolled with a fully loaded dump truck or similarly heavy, rubber-tired construction equipment to identify soft, loose, or unsuitable areas. A member of our geotechnical staff should observe the proof rolling to evaluate yielding of the ground surface. During wet weather, subgrade evaluation should be performed by probing with a foundation probe rather than proof rolling. Areas that appear soft or loose should be improved in accordance with subsequent sections of this report.

6.2 CONSTRUCTION CONSIDERATIONS

Based on the results of our explorations, our experience with the local soil conditions, and experience with subgrade under prior structures (especially building slabs and pavements), we anticipate that relatively soft, easily disturbed soil will be encountered under the existing buildings and pavements. The native soil is capable of supporting the design loads; however, it can easily be damaged during demolition and construction activities. Methods to protect the subgrade from disturbance are provided below. If not carefully executed, site preparation, utility trench work, and excavations can create extensive soft areas and significant repair costs can result. Earthwork planning, regardless of the time of year, should include considerations for minimizing subgrade disturbance.

If construction occurs during or extends into the wet season, or if the moisture content of the surficial soil is more than a couple percentage points above optimum, site stripping and cutting may need to be accomplished using track-mounted equipment. Likewise, the use of granular haul roads and staging areas will be necessary for support of construction traffic during the rainy season or when the moisture content of the surficial soil is more than a few percentage points above optimum. The base rock thickness for pavement areas is intended to support post-construction design traffic loads. This design base rock thickness may not support construction traffic or pavement construction when the subgrade soil is wet. Accordingly, if construction is planned for periods when the subgrade soil is wet, staging and haul roads with increased thicknesses of base rock will be required. The amount of staging and haul road areas, as well as the required thickness of granular material, will vary with the contractor's sequencing of a project and type/frequency of construction equipment. Based on our experience, between 12 and 18 inches of imported granular material is generally required in staging areas and between 18 and 24 inches in haul roads areas. Stabilization material may be used as a substitute provided the top 4 inches of material consists of imported granular material. The actual thickness will depend on the contractor's means and methods and, accordingly, should be the contractor's responsibility. In addition, a geotextile fabric should be placed as a barrier between the subgrade and imported granular material in areas of repeated construction traffic. The imported granular material, stabilization material, and geotextile fabric should meet the specifications in the "Materials" section of this report.

As an alternative to thickened crushed rock sections, haul roads and utility work zones may be constructed using cement-amended subgrades overlain by a crushed rock wearing surface. If this approach is used, the thickness of granular material in staging areas and along haul roads can typically be reduced to between 6 and 9 inches. This recommendation is based on an assumed minimum unconfined compressive strength of 100 psi for subgrade amended to a depth of 12 to 16 inches. The actual thickness of the amended material and imported granular material will depend on the contractor's means and methods and, accordingly, should be the contractor's responsibility. Cement amendment is discussed in the "Materials" section of this report.

6.3 EXCAVATION

6.3.1 General

Dense gravel with cobbles and boulders is present at relatively shallow depths across the site. Construction considerations associated with the presence of shallow gravel with cobbles and boulders include the following:

- Excavations can become difficult with conventional equipment.
- Excavation volumes for utility trenches may be greater than anticipated due to sloughing and the need to remove oversized material.
- Boulders will likely be encountered during excavations, and we recommend that project bid documents include a contingency for boulder removal, as well as the associated increased trench volumes for backfilling.

6.3.2 Trench Cuts and Trench Shoring

Trench cuts should stand near vertical to a depth of at least 4 feet. Open excavation techniques may be used to excavate trenches with depths between 4 and 8 feet, provided the walls of the excavation are cut at a slope of 1H:1V, groundwater seepage is not present, and with the understanding that some sloughing may occur. The trenches should be flattened to 1½H:1V if excessive sloughing occurs. Excavations that extend into the very dense gravel unit will likely encounter difficult excavation as well as cobbles and boulders.

If box shoring is used, it should be understood that box shoring is a safety feature used to protect workers and does not prevent caving. If the excavations are left open for extended periods of time, then caving of the sidewalls may occur. The presence of caved material will limit the ability to properly backfill and compact the trenches. The contractor should be prepared to fill voids between the box shoring and the sidewalls of the trenches with sand or gravel before caving occurs.

If shoring is used, we recommend that the type and design of the shoring system be the responsibility of the contractor, who is in the best position to choose a system that fits the overall plan of operation. All excavations should be made in accordance with applicable OSHA and state regulations.

6.3.3 Dewatering

Perched groundwater may be encountered within 7.5 to 10 feet of the ground surface, particularly after prolonged wet periods. Seepage was present in our explorations and will likely be present in most utility excavations that extend deeper than 7.5 feet BGS. Dewatering systems are best designed by the contractor; however, in our opinion, it should be possible to remove groundwater encountered by pumping from a sump in trenches. More intense use of pumps may be required at certain times of the year and where more intense seepage occurs. Removed water should be routed to a suitable discharge point.

If groundwater is present at the base of utility excavations, we recommend placing up to 12 inches of stabilization material at the base of the excavation. Specifications for trench stabilization material are provided in the “Materials” section of this report.

6.3.4 Safety

All excavations should be made in accordance with applicable OSHA requirements and regulations of the state, county, and local jurisdiction. While this report describes certain approaches to excavation and dewatering, the contract documents should specify that the contractor is responsible for selecting excavation and dewatering methods, monitoring the excavations for safety, and providing shoring (as required) to protect personnel and adjacent structural elements.

6.4 MATERIALS

6.4.1 Structural Fill

6.4.1.1 General

Fill should be placed on subgrade that has been prepared in conformance with the "Site Preparation" section of this report. A variety of material may be used as structural fill at the site. However, all material used as structural fill should be free of organic matter or other unsuitable material and should meet the specifications provided in OSSC 00330 (Earthwork), OSSC 00400 (Drainage and Sewers), and OSSC 02600 (Aggregates), depending on the application. A brief characterization of some of the acceptable materials and our recommendations for their use as structural fill is provided below.

6.4.1.2 On-Site Soil

The material at the site should be suitable for use as general structural fill provided it is properly moisture conditioned; free of debris, organic material, and particles over 4 inches in diameter; and meets the specifications provided in OSSC 00330.12 (Borrow Material).

Based on laboratory test results, the moisture content of the shallow, fine-grained soil generally varied from 21 to 32 percent at the time of our explorations. We estimate the optimum moisture content for compaction to be approximately 17 to 19 percent for the on-site soil. Moisture conditioning (primarily drying) will be required to use on-site soil for structural fill. Accordingly, extended dry weather will be required to adequately condition and place the soil as structural fill. It will be difficult, if not impossible, to adequately compact on-site soil during the rainy season or during prolonged periods of rainfall.

When used as structural fill, native soil should be placed in lifts with a maximum uncompacted thickness of 6 to 8 inches and compacted to not less than 92 percent of the maximum dry density for fine-grained soil and 95 percent of the maximum dry density for granular soil, as determined by ASTM D 1557.

6.4.1.3 Imported Granular Material

Imported granular material used as structural fill should be pit- or quarry-run rock, crushed rock, or crushed gravel and sand and should meet the specifications provided in OSSC 00330.14 (Selected Granular Backfill) or OSSC 00330.15 (Selected Stone Backfill). The imported granular material should also be angular, fairly well graded between coarse and fine material, have less than 5 percent by dry weight passing the U.S. Standard No. 200 sieve, and have at least two fractured faces.

Imported granular material should be placed in lifts with a maximum uncompacted thickness of 12 inches and compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557. During the wet season or when wet subgrade conditions exists, the initial lift should be approximately 18 inches in uncompacted thickness and should be compacted by rolling with a smooth-drum roller without using vibratory action.

6.4.1.4 Stabilization Material

Stabilization material used in staging or haul road areas, or as trench stabilization material, should consist of 4- or 6-inch-minus pit- or quarry-run rock, crushed rock, or crushed gravel and sand and should meet the specifications provided in OSSC 00330.15 (Selected Stone Backfill). The material should have a maximum particle size of 6 inches, less than 5 percent by dry weight passing the U.S. Standard No. 4 sieve, and at least two mechanically fractured faces. The material should be free of organic matter and other deleterious material. Stabilization material should be placed in lifts between 12 and 24 inches thick and compacted to a firm condition.

6.4.1.5 Trench Backfill

Trench backfill placed beneath, adjacent to, and for at least 12 inches above utility lines (i.e., the pipe zone) should consist of well-graded granular material with a maximum particle size of 1½ inches and less than 10 percent by dry weight passing the U.S. Standard No. 200 sieve and should meet the specifications provided in OSSC 00405.13 (Pipe Zone Material). The pipe zone backfill should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department.

Within roadway alignments, the remainder of the trench backfill up to the subgrade elevation should consist of well-graded granular material with a maximum particle size of 2½ inches and less than 10 percent by dry weight passing the U.S. Standard No. 200 sieve and should meet the specifications provided in OSSC 00405.14 (Trench Backfill; Class B, C, or D). This material should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department. The upper 3 feet of the trench backfill should be compacted to at least 95 percent of the maximum dry density, as determined by ASTM D 1557.

Outside of structural improvement areas (e.g., roadway alignments or building pads) trench backfill placed above the pipe zone may consist of general fill material that is free of organics and material over 6 inches in diameter and meets the specifications provided in OSSC 00405.14 (Trench Backfill; Class A, B, C, or D). This general trench backfill should be compacted to at least 90 percent of the maximum dry density, as determined by ASTM D 1557, or as required by the pipe manufacturer or local building department.

6.4.1.6 Drain Rock

Drain rock should consist of angular, granular material with a maximum particle size of 2 inches and should meet the specifications provided in OSSC 00430.11 (Granular Drain Backfill Material). The material should be free of roots, organic matter, and other unsuitable material; have less than 2 percent by dry weight passing the U.S. Standard No. 200 sieve (washed analysis); and have at least two mechanically fractured faces. Drain rock should be compacted to a well-keyed, firm condition.

6.4.1.7 Aggregate Base Rock

Imported granular material used as base rock for building floor slabs and pavements should consist of ¾- or 1½-inch-minus material (depending on the application) and meet the requirements in OSSC 00641 (Aggregate Subbase, Base, and Shoulders). In addition, the aggregate should have less than 5 percent by dry weight passing the U.S. Standard No. 200 sieve. The aggregate base should be compacted to not less than 95 percent of the maximum dry density, as determined by ASTM D 1557.

6.4.1.8 Retaining Wall Select Backfill

Backfill material placed behind retaining walls and extending a horizontal distance of ½H, where H is the height of the retaining wall, should consist of select granular material that meets the specifications provided in OSSC 00510.12 (Granular Wall Backfill) or OSSC 00510.13 (Granular Structure Backfill).

The backfill should be placed and compacted as recommended for structural fill, with the exception of backfill placed immediately adjacent to walls. Backfill adjacent to walls should be compacted to a lesser standard to reduce the potential for generation of excessive pressure on the walls. Backfill located within a horizontal distance of 3 feet from the retaining walls should be compacted to approximately 90 percent of the maximum dry density, as determined by ASTM D 1557. Backfill placed within 3 feet of the wall should be compacted in lifts less than 6 inches thick using hand-operated tamping equipment (such as a jumping jack or vibratory plate compactor). If flatwork (slabs, sidewalk, or pavement) will be placed adjacent to the wall, we recommend that the upper 2 feet of fill be compacted to 95 percent of the maximum dry density, as determined by ASTM D 1557.

6.4.1.9 Cement Amendment

General

In conjunction with an experienced contractor, the on-site soil can be amended with portland cement to obtain suitable support properties. Successful use of soil amendment depends on the use of correct mixing techniques, soil moisture content, and amendment quantities. Soil amending should be conducted in accordance with the specifications provided in OSSC 00344 (Treated Subgrade). The amount of cement used during treatment should be based on an assumed soil dry unit weight of 110 pcf. The site conditions include oversize material near the ground surface, which, if encountered, should be removed prior to amending on-site material.

Stabilization

Specific recommendations based on exposed site conditions for soil amending can be provided if necessary. However, for preliminary design purposes, we recommend a target strength for cement-amended subgrade for building and pavement subbase (below base aggregate) soil of 100 psi. The amount of cement used to achieve this target generally varies with moisture content and soil type. It is difficult to predict field performance of soil to cement amendment due to variability in soil response, and we recommend laboratory testing to confirm expectations. Generally, 4 percent cement by weight of dry soil can be used when the soil moisture content does not exceed approximately 20 percent. If the soil moisture content is in the range of 25 to 35 percent, 6 to 8 percent by weight of dry soil is recommended. The amount of cement added to the soil may need to be adjusted based on field observations and performance. Moreover,

depending on the time of year and moisture content levels during amendment, water may need to be applied during tilling to appropriately condition the soil moisture content.

For building and pavement subbase, we recommend assuming a minimum cement ratio of 6 percent (by dry weight). If the soil moistures are in excess of 30 percent, a cement ratio of 7 percent will likely be needed. Because of the higher organic content and moisture, we recommend using a cement ratio of 7 to 8 percent when stabilizing topsoil material for building and pavement subbase.

A minimum curing of four days is required between treatment and construction traffic access. Construction traffic should not be allowed on unprotected cement amended subgrade. To protect the cement-amended surfaces from abrasion or damage, the finished surface should be covered with 4 to 6 inches of imported granular material.

Treatment depths for building/pavement, haul roads, and staging areas are typically on the order of 12, 16, and 12 inches, respectively. The crushed rock typically becomes contaminated with soil during construction. Contaminated base rock should be removed and replaced with clean rock in pavement areas. The actual thickness of the amended material and imported granular material for haul roads and staging areas will depend on the anticipated traffic, as well as the contractor's means and methods, and accordingly, should be the contractor's responsibility.

Structural

On-site soil that would not otherwise be suitable for structural fill may be amended and placed as fill over a subgrade prepared in conformance with the "Site Preparation" section of this report. The cement ratio for general cement amended fill can generally be reduced by 1 percent (by dry weight). Typically, a minimum curing of four days is required between treatment and construction traffic access. Consecutive lifts of fill may be treated immediately after the previous lift has been amended and compacted (e.g., the four-day wait period does not apply). However, where the final lift of fill is a building or roadway subgrade, then the four-day wait period is in effect.

Compaction

A static, sheepsfoot or segment pad roller with a minimum static weight of 40,000 pounds should be used for compaction of fine-grained soil followed by final compaction using a smooth-drum roller with a minimum applied lineal force of 700 pounds per inch. The amended soil should be compacted to at least 92 percent of the achievable dry density at the moisture content of the material as defined by ASTM D 1557.

Specifications Recommendations

We recommend that the following comments be included in the specifications for the project:

- Mixing Equipment
  - Use a pulverizer/mixer capable of uniformly mixing the cement into the soil to the design depth. Blade mixing will not be allowed.
  - Pulverize the soil-cement mixture such that 100 percent by dry weight passes a 1 inch sieve and a minimum of 70 percent passes a No. 4 sieve, exclusive of gravel or stone

retained on these sieves. If water is required, the pulverizer should be equipped to inject water to a tolerance of ¼ gallon per square foot of surface area.
    - Use machinery that will not disturb the subgrade, such as using low-pressure "balloon" tires on the pulverizer/mixer vehicle. If subgrade is disturbed, the tilling/treatment depth shall extend the full depth of the disturbance.
    - Multiple "passes" of the tiller will likely be required to adequately blend the cement and soil mixture.

- Spreading Equipment
    - Use a spreader capable of distributing the cement uniformly on the ground to within 5 percent variance of the specified application rate.
    - Use machinery that will not disturb the subgrade, such as using low-pressure "balloon" tires on the spreader vehicle. If subgrade is disturbed, the tilling/treatment depth shall extend the full depth of the disturbance.

- Compaction Equipment
    - Use a static, sheepsfoot or segmented pad roller with a minimum static weight of 40,000 pounds for initial compaction of fine-grained soil (silt and clay), or an alternate approved by the geotechnical engineer.
    - Use a vibratory, smooth-drum roller with a minimum applied lineal force of 600 pounds per inch for final compaction, or an alternate approved by the geotechnical engineer.

6.4.1.10 Recycled On-Site Material

On-site AC, conventional concrete, and oversized rock may be used as fill if they are processed to meet the requirements for their intended use and the use of these materials do not result in an environmental concern. Processing includes crushing and screening, grinding in place, or other methods to meet the requirements for structural fill as described above. The processed material should be fairly well graded and not contain metal, organic, or other deleterious material. The processed material may be mixed with on-site soil or imported fill to assist in achieving the gradation requirements. We recommend that processed recycled fill have the maximum particle sizes listed in Table 5.

Table 5. Processed Fill Maximum Particle Size

Depth of Placement[1]	Maximum Particle Size
0 to 2 feet	½ inch
2 to 6 feet	2 inches
6 to 10 feet	4 inches
deeper than 10 feet	8 inches

1. below subgrade of structural element

Recycled on-site fill material should not be used within a depth of 2 feet from foundations, floor slabs, pavements, or other subsurface elements. We also caution that excavation through

recycled material that is placed as structural may be difficult if a significant fraction of oversized particles is present. In addition, these excavations may also be prone to raveling and caving.

6.4.1.11 AC

The AC should be Level 2, ½-inch, dense ACP and compacted to 91 percent of the theoretical maximum density of the mix, as determined by AASHTO T 209. The minimum and maximum lift thickness should be 2.0 and 3.0 inches, respectively, for ½-inch ACP. Asphalt binder should be performance graded and conform to PG 64-22 or better.

6.4.1.12 Geotextile Fabric

Subgrade Geotextile Fabric

A subgrade geotextile fabric should be placed as a barrier between the subgrade and granular material in staging areas, haul road areas, or in areas of repeated construction traffic. The geotextile should meet the specifications provided in OSSC 02320 (Geosynthetics) for separation geotextiles (Table 02320-4) and be installed in accordance with OSSC 00350 (Geosynthetic Installation). The geotextile should have a Level "B" certification.

Drainage Geotextile Fabric

Drain rock, and other granular material used for subsurface drains, should be wrapped in a geotextile fabric that meets the specifications provided in OSSC 02320 (Geosynthetics) for drainage geotextiles (Table 02320-1) and be installed in accordance with OSSC 00350 (Geosynthetic Installation).

6.5 EROSION CONTROL

The site soil is susceptible to erosion; therefore, erosion control measures should be carefully planned and in place before construction begins. Surface water runoff should be collected and directed away from slopes to prevent water from running down the slope face. Erosion control measures (such as straw bales, sediment fences, and temporary detention and settling basins) should be used in accordance with local and state ordinances.

7.0 OBSERVATION OF CONSTRUCTION

Satisfactory foundation and earthwork performance depends to a large degree on quality of construction. Sufficient observation of the contractor's activities is a key part of determining that the work is completed in accordance with the construction drawings and specifications. Subsurface conditions observed during construction should be compared with those encountered during the subsurface exploration. Recognition of changed conditions often requires experience; therefore, qualified personnel should visit the site with sufficient frequency to detect if subsurface conditions change significantly from those anticipated.

We recommend that GeoDesign be retained to observe earthwork activities, including stripping, proof rolling of the subgrade and repair of soft areas, footing subgrade preparation, performing laboratory compaction and field moisture-density tests, observing final proof rolling of the pavement subgrade and base rock, and asphalt placement and compaction.

8.0 LIMITATIONS

We have prepared this report for use by Reynolds School District, Day CPM Services, and members of the design and construction teams for the proposed project. The data and report can be used for bidding or estimating purposes, but our report, conclusions, and interpretations should not be construed as warranty of the subsurface conditions and are not applicable to other nearby building sites.

Exploration observations indicate soil conditions only at specific locations and only to the depths penetrated. They do not necessarily reflect soil strata or water level variations that may exist between exploration locations. If subsurface conditions differing from those described are noted during the course of excavation and construction, re-evaluation will be necessary.

The site development plans and design details were preliminary at the time this report was prepared. When the design has been finalized and if there are changes in the site grades or location, configuration, design loads, or type of construction for the buildings, and walls, the conclusions and recommendations presented may not be applicable. If design changes are made, we request that we be retained to review our conclusions and recommendations and to provide a written modification or verification.

The scope does not include services related to construction safety precautions, and our recommendations are not intended to direct the contractor's methods, techniques, sequences, or procedures, except as specifically described in our report for consideration in design.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted practices in this area at the time the report was prepared. No warranty, express or implied, should be understood.

♦ ♦ ♦

We appreciate the opportunity to be of service to you. Please call if you have questions concerning this report or if we can provide additional services.

Sincerely,

GeoDesign, Inc.



Viola C. Lai, P.E., G.E.
Project Engineer



George Saunders, P.E., G.E.
Principal Engineer



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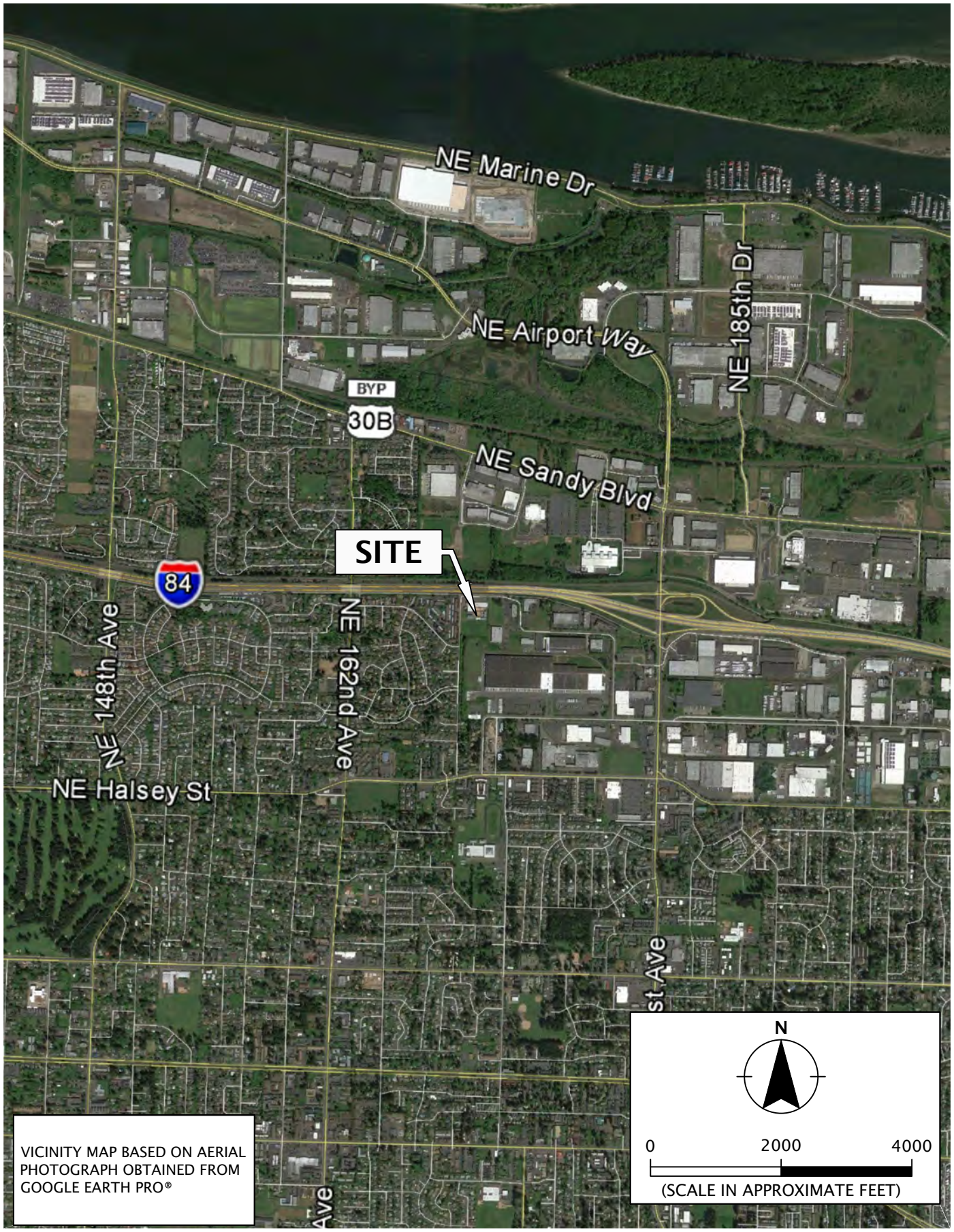
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FIGURES



VICINITY MAP BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-01	**VICINITY MAP**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE 1**

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LEGEND:

B-1 BORING

IR = ~0 IN/HR AT 15.6 FEET UNFACTORED INFILTRATION RATE

N

0 60 120

(SCALE IN FEET)

SITE PLAN BASED ON AERIAL PHOTOGRAPH OBTAINED FROM GOOGLE EARTH PRO®, APRIL 12, 2016

SITE PLAN

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE 2

REYNOLDSSD-5-01

APRIL 2016

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
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File Name: J:\M-R\ReynoldsSD\ReynoldsSD-5\ReynoldsSD-5-01\Figures\CAD\ReynoldsSD-5-01-SP01.dwg | Layout: FIGURE 2

APPENDIX A

APPENDIX A

FIELD EXPLORATIONS

GENERAL

We explored the site by drilling six borings (B-1 through B-6) to depths of 6.0 to 16.5 feet BGS. The borings were drilled on March 25 and 28, 2016 using hollow-stem auger drilling methods by Western States Soil Conservation, Inc. of Hubbard, Oregon. The explorations were observed by a member of our geotechnical staff.

Approximate locations of our explorations are shown on Figure 2. Exploration locations were chosen based on the preliminary site plans that were a part of Attachment F of the *Site Assessments & Master Plan Concepts* document provided to our office by Day CPM Services. The locations of the explorations were determined in the field by pacing from existing site features. This information should be considered accurate only to the degree implied by the methods used.

SOIL SAMPLING

We obtained representative samples of the various soil encountered in the explorations for geotechnical laboratory testing. Soil samples were obtained from the borings using SPT sampling methods. SPTs were performed in general conformance with ASTM D 1586. The sampler was driven with a 140-pound hammer free-falling 30 inches. The number of blows required to drive the sampler 1 foot, or as otherwise indicated, into the soil is shown adjacent to the sample symbols on the exploration logs. Disturbed samples were obtained from the split barrel for subsequent classification and index testing. Sampling depths are shown on the exploration logs.

SOIL CLASSIFICATION

The soil samples were classified in accordance with the "Exploration Key" (Table A-1) and "Soil Classification System" (Table A-2), which are presented in this appendix. The exploration logs indicate the depths at which the soils or their characteristics change, although the change could be gradual. If the change occurred between sample locations, the depth was interpreted. Classifications are shown on the exploration logs.

The average efficiency of the automatic SPT hammer used by Western States Soil Conservation, Inc. was 85 percent. The calibration testing results are presented at the end of this appendix.

LABORATORY TESTING

CLASSIFICATION

The soil samples were classified in the laboratory to confirm field classifications. The laboratory classifications are shown on the exploration logs if those classifications differed from the field classifications.

MOISTURE CONTENT

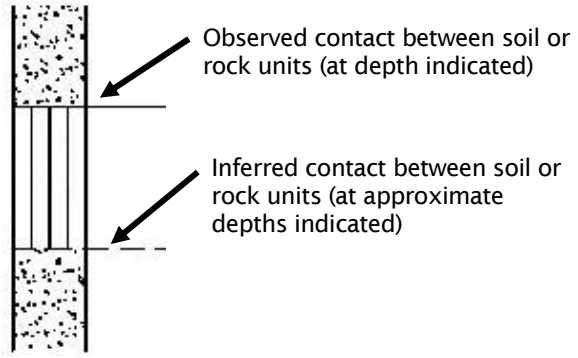
We tested the natural moisture content of selected samples obtained from the explorations in general accordance with ASTM D 2216. The natural moisture content is a ratio of the weight of the water to soil in a test sample and is expressed as a percentage. The test results are presented in this appendix.

GRAIN-SIZE TESTING

Grain-size testing was performed on selected soil samples to determine the distribution of soil particle sizes. The testing consisted of particle-size analysis completed in accordance with percent fines determination (percent passing the U.S. Standard No. 200 sieve) completed in general accordance with the ASTM C 117 and ASTM D 1140 (P200). The test results are presented in this appendix.

SYMBOL	SAMPLING DESCRIPTION
	Location of sample obtained in general accordance with ASTM D 1586 Standard Penetration Test with recovery
	Location of sample obtained using thin-wall Shelby tube or Geoprobe® sampler in general accordance with ASTM D 1587 with recovery
	Location of sample obtained using Dames & Moore sampler and 300-pound hammer or pushed with recovery
	Location of sample obtained using Dames & Moore and 140-pound hammer or pushed with recovery
	Location of sample obtained using 3-inch-O.D. California split-spoon sampler and 140-pound hammer
	Location of grab sample
	Rock coring interval
	Water level during drilling
	Water level taken on date shown

Graphic Log of Soil and Rock Types



GEOTECHNICAL TESTING EXPLANATIONS

ATT	Atterberg Limits	PP	Pocket Penetrometer
CBR	California Bearing Ratio	P200	Percent Passing U.S. Standard No. 200 Sieve
CON	Consolidation		
DD	Dry Density	RES	Resilient Modulus
DS	Direct Shear	SIEV	Sieve Gradation
HYD	Hydrometer Gradation	TOR	Torvane
MC	Moisture Content	UC	Unconfined Compressive Strength
MD	Moisture-Density Relationship	VS	Vane Shear
OC	Organic Content	kPa	Kilopascal
P	Pushed Sample		

ENVIRONMENTAL TESTING EXPLANATIONS

CA	Sample Submitted for Chemical Analysis	ND	Not Detected
P	Pushed Sample	NS	No Visible Sheen
PID	Photoionization Detector Headspace Analysis	SS	Slight Sheen
		MS	Moderate Sheen
ppm	Parts per Million	HS	Heavy Sheen

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EXPLORATION KEY

TABLE A-1

RELATIVE DENSITY - COARSE-GRAINED SOILS

Relative Density	Standard Penetration Resistance	Dames & Moore Sampler (140-pound hammer)	Dames & Moore Sampler (300-pound hammer)
Very Loose	0 – 4	0 - 11	0 - 4
Loose	4 – 10	11 - 26	4 - 10
Medium Dense	10 – 30	26 - 74	10 - 30
Dense	30 – 50	74 - 120	30 - 47
Very Dense	More than 50	More than 120	More than 47

CONSISTENCY - FINE-GRAINED SOILS

Consistency	Standard Penetration Resistance	Dames & Moore Sampler (140-pound hammer)	Dames & Moore Sampler (300-pound hammer)	Unconfined Compressive Strength (tsf)
Very Soft	Less than 2	Less than 3	Less than 2	Less than 0.25
Soft	2 - 4	3 – 6	2 - 5	0.25 - 0.50
Medium Stiff	4 - 8	6 – 12	5 - 9	0.50 - 1.0
Stiff	8 - 15	12 – 25	9 - 19	1.0 - 2.0
Very Stiff	15 - 30	25 – 65	19 – 31	2.0 - 4.0
Hard	More than 30	More than 65	More than 31	More than 4.0

PRIMARY SOIL DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE-GRAINED SOILS (more than 50% retained on No. 200 sieve)	GRAVEL (more than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVELS (< 5% fines)	GW or GP	GRAVEL
		GRAVEL WITH FINES (≥ 5% and ≤ 12% fines)	GW-GM or GP-GM	GRAVEL with silt
			GW-GC or GP-GC	GRAVEL with clay
		GRAVELS WITH FINES (> 12% fines)	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND (50% or more of coarse fraction passing No. 4 sieve)	CLEAN SANDS (<5% fines)	SW or SP	SAND
		SANDS WITH FINES (≥ 5% and ≤ 12% fines)	SW-SM or SP-SM	SAND with silt
			SW-SC or SP-SC	SAND with clay
		SANDS WITH FINES (> 12% fines)	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOILS (50% or more passing No. 200 sieve)	SILT AND CLAY	Liquid limit less than 50	ML	SILT
			CL	CLAY
			CL-ML	silty CLAY
			OL	ORGANIC SILT or ORGANIC CLAY
		Liquid limit 50 or greater	MH	SILT
			CH	CLAY
			OH	ORGANIC SILT or ORGANIC CLAY
HIGHLY ORGANIC SOILS			PT	PEAT

MOISTURE CLASSIFICATION

Term	Field Test
dry	very low moisture, dry to touch
moist	damp, without visible moisture
wet	visible free water, usually saturated

ADDITIONAL CONSTITUENTS

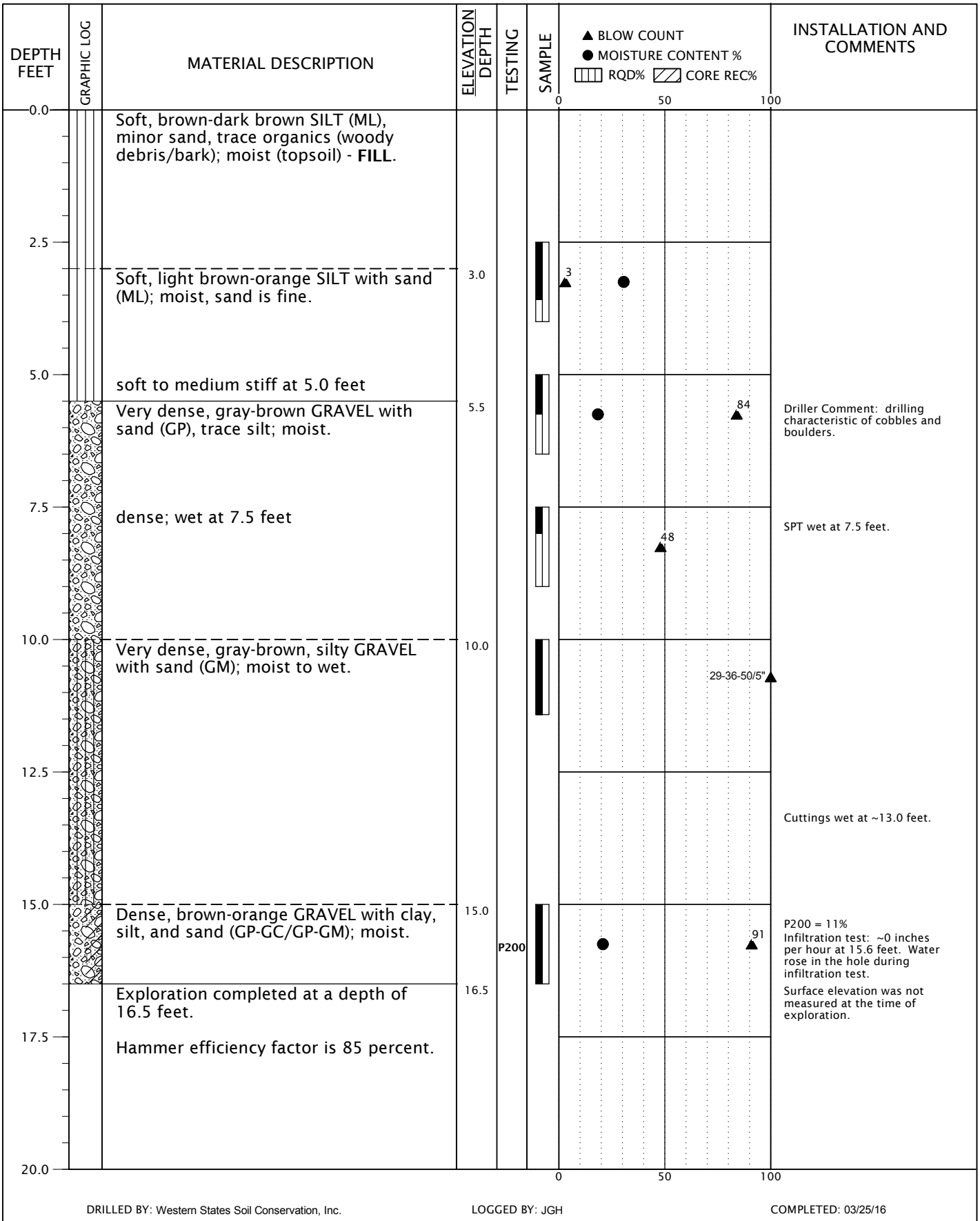
Secondary granular components or other materials such as organics, man-made debris, etc.

Percent	Silt and Clay In: Fine-Grained Soils	Silt and Clay In: Coarse-Grained Soils	Percent	Sand and Gravel In: Fine-Grained Soils	Sand and Gravel In: Coarse-Grained Soils
< 5	trace	trace	< 5	trace	trace
5 – 12	minor	with	5 – 15	minor	minor
> 12	some	silty/clayey	15 – 30	with	with
			> 30	sandy/gravelly	Indicate %

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SOIL CLASSIFICATION SYSTEM

TABLE A-2



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/25/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

BORING LOG REYNOLDSSD-5-01-B1_6.GPJ GEODESIGN.GDT PRINT DATE: 4/25/16:RC:KT

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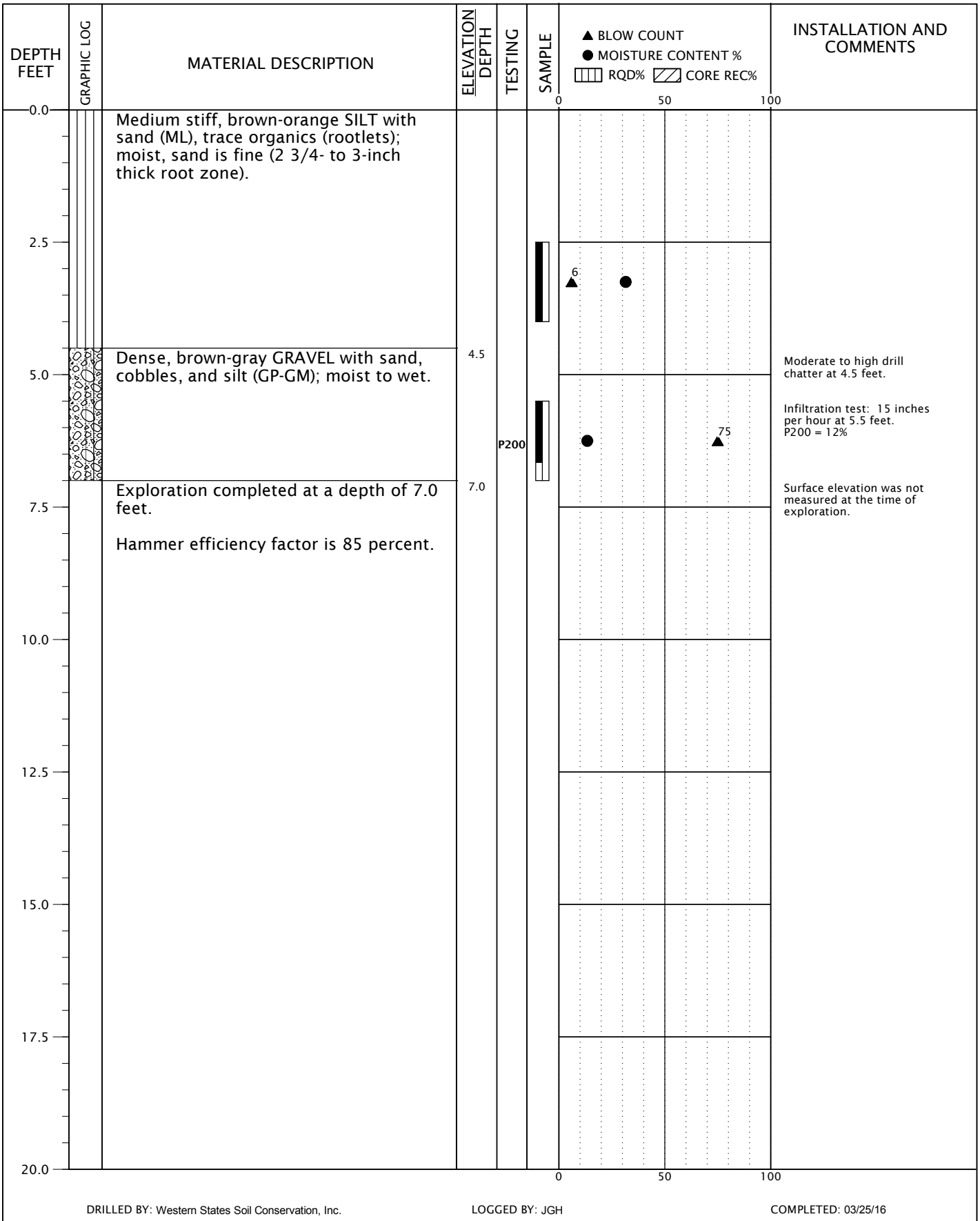
REYNOLDSSD-5-01

BORING B-1

APRIL 2016

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE A-1



DRILLED BY: Western States Soil Conservation, Inc.

LOGGED BY: JGH

COMPLETED: 03/25/16

BORING METHOD: hollow-stem auger (see document text)

BORING BIT DIAMETER: 8 inches

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REYNOLDSSD-5-01

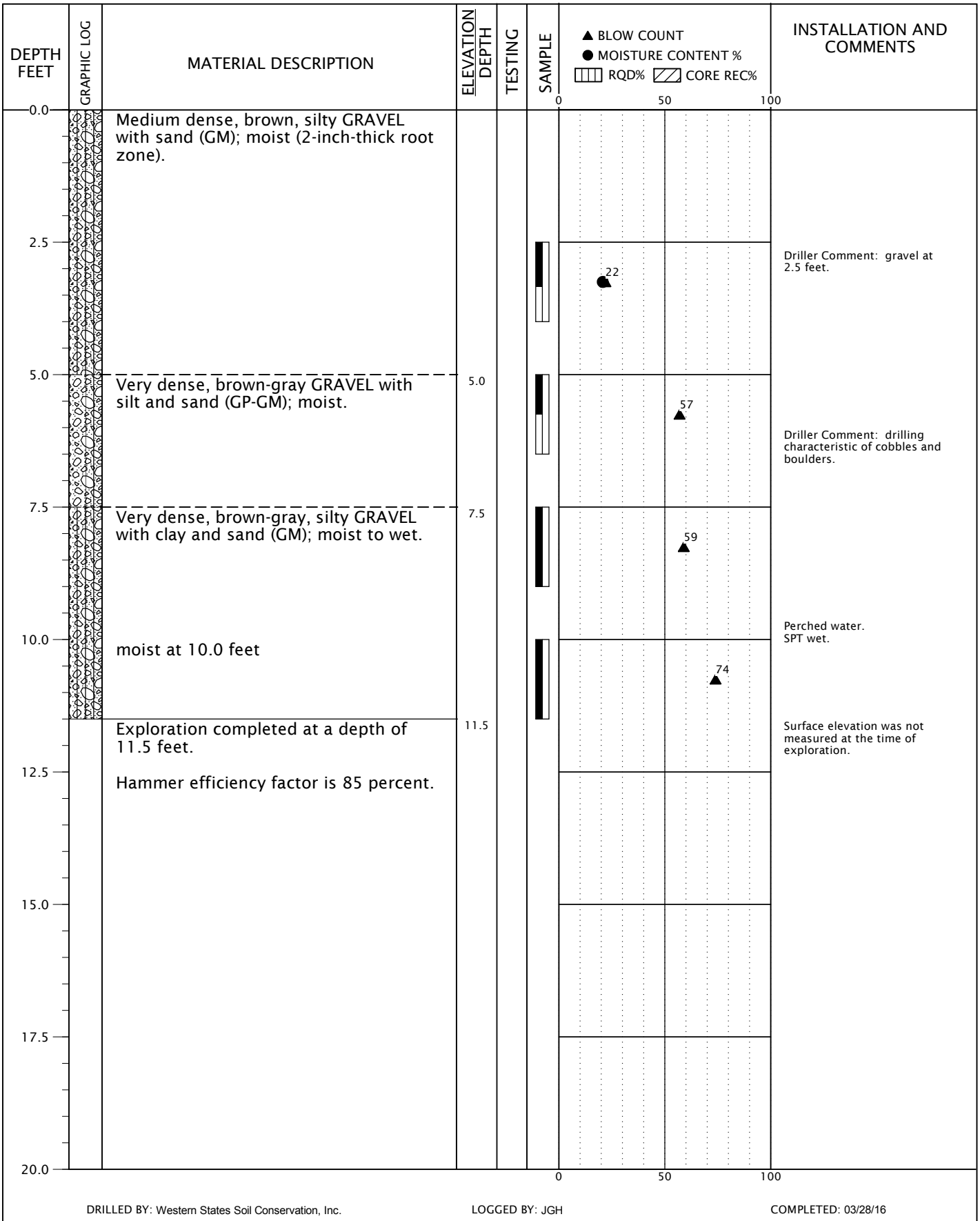
BORING B-2

APRIL 2016

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE A-2

BORING LOG REYNOLDSSD-5-01-B1_6.GPJ GEODESIGN.GDT PRINT DATE: 4/25/16:RC:KT



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/28/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

BORING LOG REYNOLDSSD-5-01-B1_6.GPJ GEODESIGN.GDT PRINT DATE: 4/25/16:RC:KT

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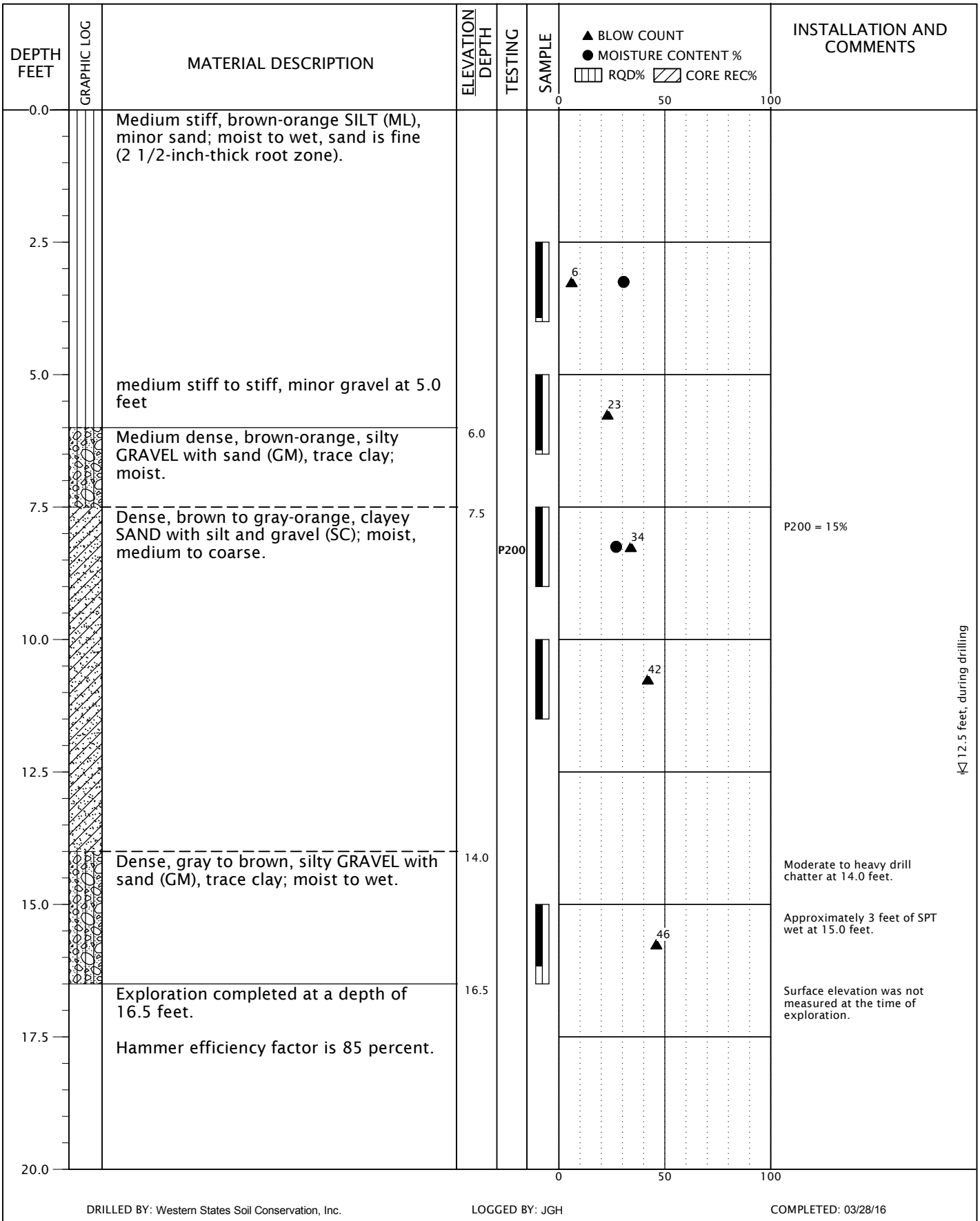
REYNOLDSSD-5-01

BORING B-3

APRIL 2016

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE A-3



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/28/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

BORING LOG REYNOLDSSD-5-01-B1_6.GPJ GEODESIGN.GDT PRINT DATE: 4/25/16:RC:KT

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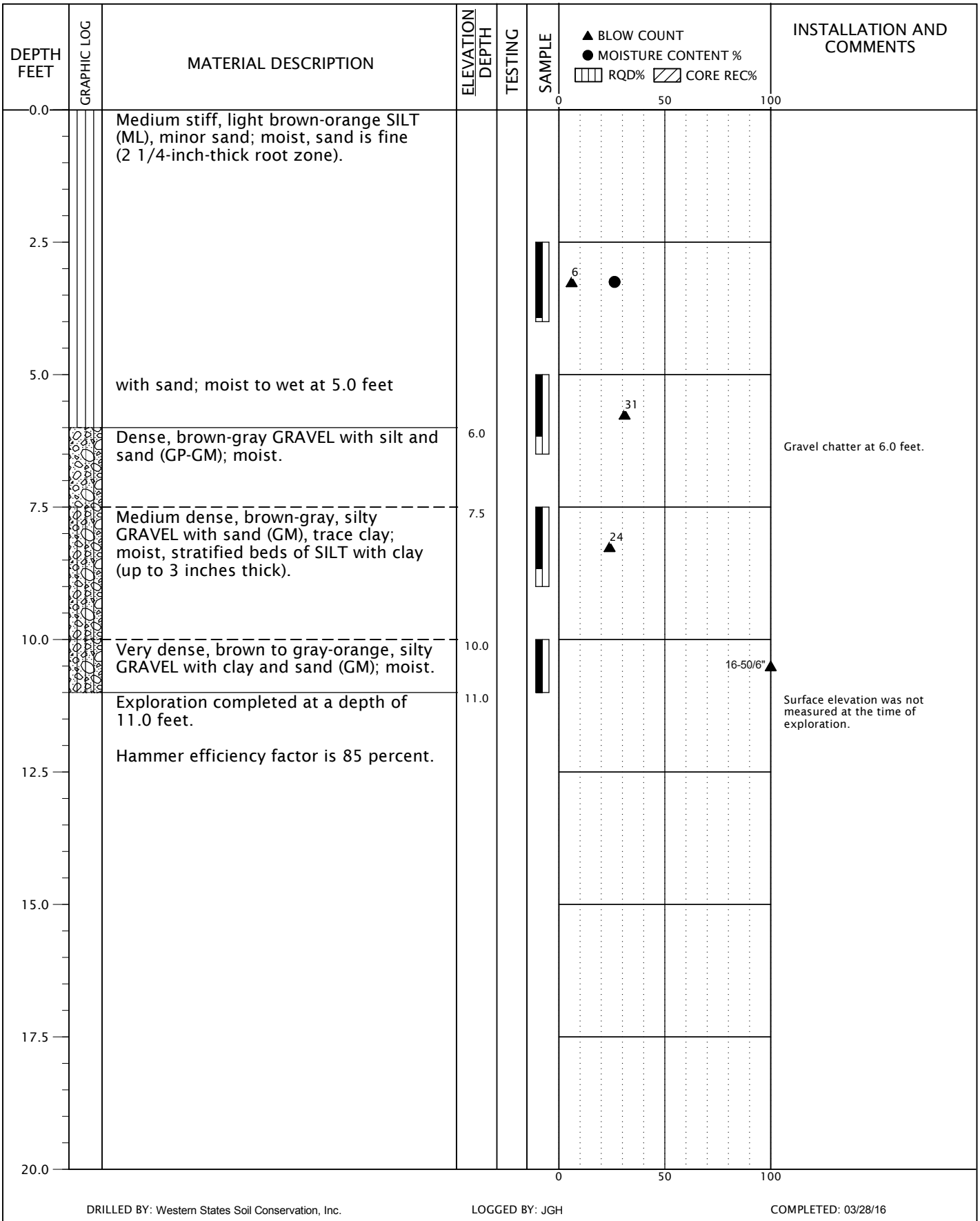
REYNOLDSSD-5-01

BORING B-4

APRIL 2016

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE A-4



DRILLED BY: Western States Soil Conservation, Inc. LOGGED BY: JGH COMPLETED: 03/28/16

BORING METHOD: hollow-stem auger (see document text) BORING BIT DIAMETER: 8 inches

BORING LOG REYNOLDSSD-5-01-B1_6.GPJ GEODESIGN.GDT PRINT DATE: 4/25/16:RC:KT

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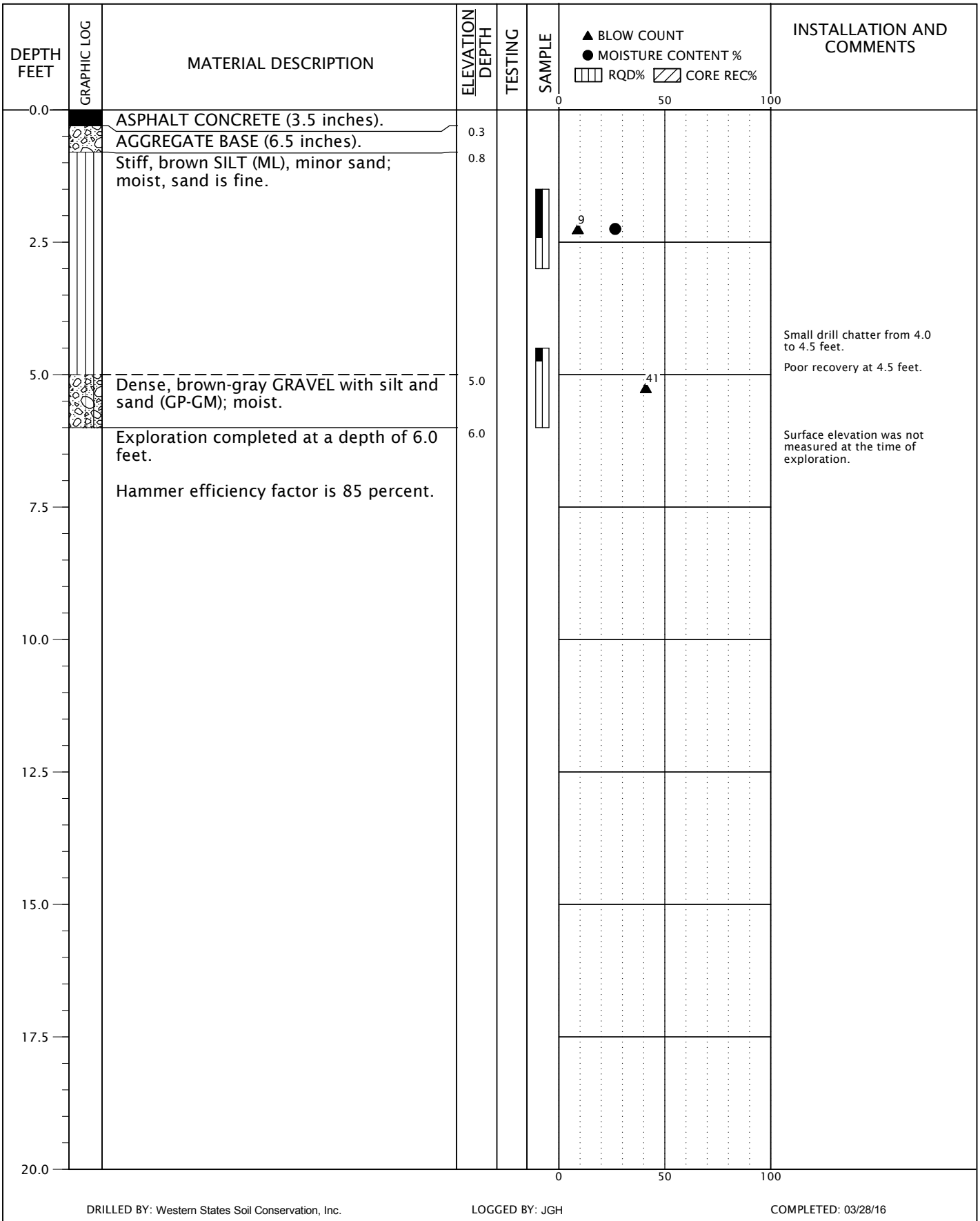
REYNOLDSSD-5-01

BORING B-5

APRIL 2016

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE A-5



DRILLED BY: Western States Soil Conservation, Inc.

LOGGED BY: JGH

COMPLETED: 03/28/16

BORING METHOD: hollow-stem auger (see document text)

BORING BIT DIAMETER: 8 inches

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REYNOLDSSD-5-01

BORING B-6

APRIL 2016

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE A-6

BORING LOG REYNOLDSSD-5-01-B1_6.GPJ GEODESIGN.GDT PRINT DATE: 4/25/16:RC:KT

SAMPLE INFORMATION			MOISTURE CONTENT (PERCENT)	DRY DENSITY (PCF)	SIEVE			ATTERBERG LIMITS		
EXPLORATION NUMBER	SAMPLE DEPTH (FEET)	ELEVATION (FEET)			GRAVEL (PERCENT)	SAND (PERCENT)	P200 (PERCENT)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX
B-1	2.5		31							
B-1	5.0		18							
B-1	15.0		21				11			
B-2	2.5		32							
B-2	5.5		13				12			
B-3	2.5		21							
B-4	2.5		31							
B-4	7.5		27				15			
B-5	2.5		26							
B-6	1.5		27							

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REYNOLDSSD-5-01

SUMMARY OF LABORATORY DATA

APRIL 2016

WILKES ELEMENTARY SCHOOL
GRESHAM, OR

FIGURE A-7

LAB SUMMARY REYNOLDSSD-5-01-B1_6.GPJ GEODESIGN.GDT PRINT DATE: 4/15/16:RC

WSSC-7-01 - TEST BORING B-7 25FT
OP: WMN

TRACK RIG NO. 2
Date: 30-May-2015

AR: 1.41 in²
LE: 29.25 ft
WS: 16,807.9 f/s

SP: 0.492 k/ft³
EM: 30,000 ksi
JC: 0.00 []

ETR: Energy Transfer Ratio
EMX: Max Transferred Energy
CSB: Compression Stress at Bottom
BPM: Blows per Minute
FFS: Force Full Scale

DMX: Maximum Displacement
SFR: Skin friction w/ damping correction
MEX: Maximum Strain
VMX: Maximum Velocity

BL#	depth ft	BLC bl/ft	ETR (%)	EMX k-ft	CSB ksi	BPM bpm	FFS kips	DMX in	SFR kips	MEX µE	VMX f/s
10	25.16	6	81.3	0.3	0.0	48.5	60	1.09	0	957	13.6
12	25.48	6	87.0	0.3	0.0	49.1	60	0.82	0	973	14.4
14	25.81	6	83.8	0.3	0.0	49.0	60	0.67	0	915	14.0
16	26.13	6	86.2	0.3	0.0	48.7	60	0.57	0	986	14.4
18	26.45	6	83.8	0.3	0.0	48.7	60	0.53	0	974	14.1
20	26.77	6	85.7	0.3	0.0	48.7	60	0.56	0	950	14.3
22	27.10	6	85.0	0.3	0.0	48.8	60	0.57	0	942	14.2
24	27.42	6	86.7	0.3	0.0	48.3	60	0.61	0	985	14.5
26	27.74	6	84.7	0.3	0.0	48.6	60	0.57	0	968	14.4
28	28.06	6	86.4	0.3	0.0	48.2	60	0.82	0	941	14.5
30	28.39	6	84.0	0.3	0.0	48.3	60	0.56	0	939	14.0
40	30.00	6	85.1	0.3	0.0	48.5	60	1.03	0	900	14.8
42	30.27	7	81.9	0.3	0.0	48.8	60	0.59	0	893	13.8
44	30.54	7	82.0	0.3	0.0	48.8	60	0.97	0	912	13.8
46	30.81	7	85.4	0.3	0.0	48.5	60	0.59	0	936	14.3
48	31.08	7	81.7	0.3	0.0	48.6	60	0.49	0	873	13.7
50	31.35	7	85.7	0.3	0.0	48.3	60	0.55	0	920	14.0
52	31.62	7	84.4	0.3	0.0	48.3	60	0.56	0	928	14.0
54	31.89	7	84.0	0.3	0.0	48.4	60	0.48	0	865	13.9
56	32.16	7	88.3	0.3	0.0	48.4	60	0.89	0	914	14.5
58	32.43	7	82.2	0.3	0.0	48.5	60	0.38	0	937	13.9
60	32.70	7	84.1	0.3	0.0	48.7	60	1.12	0	858	13.5
62	32.97	7	86.7	0.3	0.0	48.4	60	0.93	0	883	14.1
64	33.24	7	83.0	0.3	0.0	48.6	60	0.95	0	929	13.9
66	33.51	7	81.1	0.3	0.0	48.3	60	0.36	0	911	13.7
82	35.67	7	84.7	0.3	0.0	48.7	60	0.66	0	809	16.1
84	35.83	13	82.9	0.3	0.0	48.7	60	0.53	0	780	15.2
86	35.98	13	84.6	0.3	0.0	48.8	60	0.67	0	796	15.6
88	36.14	13	84.7	0.3	0.0	48.5	60	0.75	0	790	15.8
90	36.30	13	83.8	0.3	0.0	48.2	60	0.55	0	794	16.1
92	36.46	13	85.8	0.3	0.0	48.5	60	0.43	0	867	17.1
94	36.61	13	87.3	0.3	0.0	48.6	60	1.18	0	858	17.0
96	36.77	13	82.1	0.3	0.0	48.5	60	0.38	0	803	15.5
98	36.93	13	83.0	0.3	0.0	48.5	60	0.67	0	782	15.6
100	37.09	13	83.9	0.3	0.0	48.7	60	0.37	0	861	16.8
102	37.24	13	85.3	0.3	0.0	48.5	60	0.37	0	882	17.1
104	37.40	13	83.7	0.3	0.0	48.4	60	0.37	0	879	16.7
106	37.56	13	84.7	0.3	0.0	48.3	60	0.37	0	848	17.4
108	37.72	13	84.8	0.3	0.0	48.3	60	0.38	0	855	16.8
110	37.87	13	84.2	0.3	0.0	48.4	60	0.37	0	869	16.6
112	38.03	13	86.9	0.3	0.0	48.3	60	0.45	0	883	17.5
114	38.19	13	86.1	0.3	0.0	48.5	60	0.44	0	869	17.3
116	38.35	13	84.3	0.3	0.0	48.4	60	0.83	0	858	16.2
118	38.50	13	84.8	0.3	0.0	48.3	60	0.38	0	860	16.4
120	38.66	13	85.2	0.3	0.0	48.3	60	0.68	0	839	16.1

WSSC-7-01 - TEST BORING B-7 25FT
OP: WMN

TRACK RIG NO. 2
Date: 30-May-2015

BL#	depth	BLC	ETR	EMX	CSB	BPM	FFS	DMX	SFR	MEX	VMX
	ft	bl/ft	(%)	k-ft	ksi	bpm	kips	in	kips	µE	f/s
122	38.82	13	84.2	0.3	0.0	48.4	60	0.37	0	872	16.7
124	38.98	13	84.7	0.3	0.0	48.4	60	0.75	0	836	16.6
126	39.13	13	83.4	0.3	0.0	48.3	60	0.48	0	834	16.0
137	40.00	13	84.9	0.3	0.0	50.8	60	0.56	0	925	14.9
139	40.16	13	85.4	0.3	0.0	50.3	60	0.54	0	917	14.7
141	40.31	13	84.1	0.3	0.0	50.4	60	0.50	0	914	14.3
143	40.47	13	87.5	0.3	0.0	50.3	60	0.83	0	933	14.6
145	40.63	13	86.8	0.3	0.0	50.6	60	0.85	0	929	14.1
147	40.79	13	86.4	0.3	0.0	50.6	60	0.66	0	948	14.6
149	40.94	13	84.2	0.3	0.0	50.7	60	0.44	0	929	14.4
151	41.10	13	85.2	0.3	0.0	50.5	60	0.45	0	933	14.0
153	41.26	13	85.8	0.3	0.0	50.5	60	0.56	0	924	14.4
155	41.42	13	86.6	0.3	0.0	50.4	60	0.63	0	936	14.5
157	41.57	13	85.7	0.3	0.0	50.8	60	0.55	0	926	14.7
159	41.73	13	86.8	0.3	0.0	50.6	60	0.51	0	930	14.4
161	41.89	13	85.6	0.3	0.0	50.5	60	0.55	0	899	13.7
163	42.05	13	87.3	0.3	0.0	50.5	60	0.92	0	918	13.8
165	42.20	13	85.5	0.3	0.0	50.1	60	0.86	0	923	13.5
167	42.36	13	85.1	0.3	0.0	50.8	60	0.71	0	922	13.8
		Average	85.0	0.3	0.0	49.0	60	0.64	0	892	15.0
		Std. Dev.	1.8	0.0	0.0	0.9	0	0.25	0	53	1.2

Total number of blows analyzed: 128

BL# Sensors

9-167 F3: [SPT B1] 217.8 (1.00); F4: [SPT B2] 218.9 (1.00); A3: [K0232] 290.0 (1.00); A4: [K0231] 325.0 (1.00)

BL# Comments

31 N: 7,9,14
40 LE = 34.20 ft; WC = 16,765.8 f/s
67 N: 7,10,18
82 LE = 39.42 ft; WC = 16,764.7 f/s
127 N: 13, 20, 26
137 LE = 44.10 ft; WC = 16,774.5 f/s
167 N: 8,15,16

Time Summary

Drive	27 seconds	5:31 PM - 5:32 PM (5/30/2015) BN 9 - 31
Stop	14 minutes 52 seconds	5:32 PM - 5:47 PM
Drive	33 seconds	5:47 PM - 5:47 PM BN 40 - 67
Stop	19 minutes 59 seconds	5:47 PM - 6:07 PM
Drive	55 seconds	6:07 PM - 6:08 PM BN 82 - 127
Stop	16 minutes 13 seconds	6:08 PM - 6:24 PM
Drive	35 seconds	6:24 PM - 6:25 PM BN 137 - 167

Total time [00:53:37] = (Driving [00:02:31] + Stop [00:51:06])

APPENDIX B

APPENDIX B

NEARBY WELL LOG

A nearby well log obtained from OWRD is presented in this appendix.

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
JUN 11 1979
WATER RESOURCES DEPT.
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

MULT
06140

State Well No. 1N/3E-30
State Permit No.

(1) OWNER:
Name Union Plaza
Address 1850 N.E. 162nd
Portland, Oregon

(2) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary [X] Driven [ ]
Cable [ ] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [X] Test Well [ ] Other [ ]

CASING INSTALLED:
Threaded [ ] Welded [X]
8 5/8" Diam. from +2 ft. to 203 ft. Gage .250
6 5/8" Diam. from 155 ft. to 700 ft. Gage 188
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [X] Yes [ ] No
Type of perforator used Torch
Size of perforations 1/8 in. by 12 in.
80 perforations from 475 ft. to 495 ft.
160 perforations from 580 ft. to 620 ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? [ ] Yes [X] No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [X] No If yes, by whom? Airlift
Yield: 70 gal./min. with 80 ft. drawdown after 3 hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Cement
Well sealed from land surface to 203 ft.
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal 23 sacks
How was cement grout placed? Bottom seal (13 sacks) tremied to bottom & pressured - top seal tremied bottom to top (10 sacks)
Was a drive shoe used? [ ] Yes [X] No Plugs Size: location ft.
Did any strata contain unusable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Multnomah Driller's well number
¼ ¼ Section 30 T. 1N R. 3 E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 620 ft.
Static level 155 ft. below land surface. Date 6/4/79
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing -0-
Depth drilled 700 ft. Depth of completed well 700 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Brown Clay	0	3	
Brown clay w/gravel & boulders	3	76	
Cemented sand & gravel	76	97	
Soft lt. brown sandy clay	97	105	
Med. to coarse brown sand w/ fine to med. gravel	105	110	
Med. to coarse gravel w/cobble	110	118	
Soft lt. brown sandy clay	118	125	
Soft dark brown clay	125	130	
Coarse gravel	130	140	
Brown clay w/ fine gravel	140	167	
Med. to coarse gravel	167	173	
Cemented gravel & cobble	173	231	
Fine to med. gravel w/ dark gray sandy clay	231	237	
Cemented gravel & cobble	237	263	
Fine to med. gravel w/ sand	263	278	
Fine to coarse gravel	278	283	
Cemented sand & gravel	283	300	

Work started 4/30 19 79 Completed 6/5 19 79
Date well drilling machine moved off of well 6/6 19 79

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] (Drilling Machine Operator) Date 6/8, 19 79
Drilling Machine Operator's License No. 751

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name A.M. JANNSEN WELL DRILLING CO., INC. (Person, firm or corporation) (Type or print)
Address 21075 SW Tualatin Valley Hwy.; Aloha, Ore. 97005
[Signed] (Water Well Contractor)
Contractor's License No. 79 Date 6/8, 19 79

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
JUN 11 1973
WATER RESOURCES DEPT.
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 1N/3E-30

State Permit No. .....

(1) OWNER:
Name Union Plaza Page 2

Address

(2) TYPE OF WORK (check):
New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☐

..... " Diam. from ..... ft. to ..... ft. Gage .....
..... " Diam. from ..... ft. to ..... ft. Gage .....
..... " Diam. from ..... ft. to ..... ft. Gage .....

PERFORATIONS:
Perforated? ☐ Yes ☐ No.

Type of perforator used

Size of perforations in. by in.

..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☐ No

Manufacturer's Name .....

Type ..... Model No. .....

Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.

Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.
" " " "
" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:
Well seal—Material used .....

Well sealed from land surface to ..... ft.

Diameter of well bore to bottom of seal ..... in.

Diameter of well bore below seal ..... in.

Number of sacks of cement used in well seal ..... sacks

How was cement grout placed? .....

Was a drive shoe used? ☐ Yes ☐ No Plugs ..... Size: location ..... ft.

Did any strata contain unusable water? ☐ Yes ☐ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel: .....

Gravel placed from ..... ft. to ..... ft.

(10) LOCATION OF WELL:
County Driller's well number

¼ ¼ Section T. R. W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found ft.

Static level ft. below land surface. Date

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing .....

Depth drilled ft. Depth of completed well ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Coarse dry gravel w/ occ. cemented zones	300	343	
Cemented sand & gravel	343	375	
Fine black sandstone	375	378	
Soft lt. gray clay	378	408	
Med. compact gray sand	408	422	
Soft lt. gray sandy clay	422	434	
Dark gray sandstone	434	442	
Gray sandy clay w/ sand lenses	442	500	
Coarse gray black sandstone	500	512	
Gray claystone w/sandstone interbeds	512	524	
Soft lt. gray clay	524	530	
Cemented gravel w/ claystone interbeds	530	573	
Soft lt. gray clay	573	576	
Cemented gravel (water)	576	614	
Lt. gray sandy clay w/ gravel interbeds	614	683	
Soft gray-green clay	683	700	

Work started 19 Completed 19

Date well drilling machine moved off of well 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] ..... Date ....., 19.....
(Drilling Machine Operator)

Drilling Machine Operator's License No. .....

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name .....
(Person, firm or corporation) (Type or print)

Address .....

[Signed] .....
(Water Well Contractor)

Contractor's License No. ..... Date ....., 19.....

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

APPENDIX C

APPENDIX C

SITE-SPECIFIC SEISMIC HAZARD EVALUATION

INTRODUCTION

The information in this appendix summarizes the results of a site-specific seismic hazard evaluation for the proposed Wilkes Elementary School in Gresham, Oregon. This seismic hazard evaluation was performed in accordance with the requirements of the 2014 SOSSC and ASCE 7-10.

SITE CONDITIONS

REGIONAL GEOLOGY

A detailed description of the geologic setting is presented in the main report.

SUBSURFACE CONDITIONS

A detailed description of site subsurface conditions is presented in the main report.

SEISMIC SETTING

Earthquake Source Zones

Three scenario earthquakes were considered for this study consistent with the local seismic setting. Two of the possible earthquake sources are associated with the CSZ, and the third event is a shallow local crustal earthquake that could occur in the North American plate. The three earthquake scenarios are discussed below.

Regional Events

The CSZ is the region where the Juan de Fuca Plate is being subducted beneath the North American Plate. This subduction is occurring in the coastal region between Vancouver Island and northern California. Evidence has accumulated suggesting that this subduction zone has generated eight great earthquakes in the last 4,000 years, with the most recent event occurring approximately 300 years ago (Weaver and Shedlock, 1991). The fault trace is mapped approximately 50 to 120 km off the Oregon Coast. Two types of subduction zone earthquakes are possible and considered in this study:

1. An interface event earthquake on the seismogenic part of the interface between the Juan de Fuca Plate and the North American Plate on the CSZ. This source is reportedly capable of generating earthquakes with a moment magnitude of between 8.5 and 9.0.
2. A deep intraplate earthquake on the seismogenic part of the subducting Juan de Fuca Plate. These events typically occur at depths of between 30 and 60 km. This source is capable of generating an event with a moment magnitude of up to 7.5.

Local Events

A significant earthquake could occur on a local fault near the site within the design life of the facility. Such an event would cause ground shaking at the site that could be more intense than the CSZ events, though the duration would be shorter. Figure C-1 shows the locations of faults

with potential Quaternary movement within a 20-mile radius of the site. Figure C-2 shows the interpreted locations of seismic events that occurred between 1833 and 1993 (USGS, 2010). The most significant faults in the site vicinity are the Grant Butte and Damascus-Tickle Creek fault zones, East bank fault, and Lacamas Lake fault. A discussion of these faults is provided below.

Grant Butte and Damascus-Tickle Creek Fault Zones

The Grant Butte fault zone is an east to northeast-trending fault within the Portland Basin (Geomatrix, 1995). It has been mapped as a series of randomly oriented faults with the Troutdale Formation. The Damascus-Tickle Creek fault zone displaces Pliocene and Pleistocene sediments and is northwest trending. Relatively short faults comprise the complex. A probability of activity of 0.5 has been assigned to these fault zones with maximum rupture lengths equal to the total fault zone length.

East Bank Fault

The East Bank fault is a north to south-trending fault mapped west of the site. The fault location is inferred because it is completely covered by river sediment. The fault was mapped by magnetic patterns observed during past geophysical studies. There have been no known seismic events along this fault.

Lacamas Lake Fault

The Lacamas Lake fault is a northwest-trending, strike-slip fault or oblique-slip fault. It is estimated to have a 0.5 probability of activity and a maximum rupture length of up to 10 miles (Geomatrix, 1995). The slip rate is likely relatively low. There has been no recorded activity along the fault, although a 1989 earthquake may be associated with a subsurface section of this fault.

Local Event on an Unknown Fault

There are several other faults located within 20 miles of the site. The historical seismic record in Oregon indicates poor correlation between mapped surface faults and crustal earthquake epicenters. The current explanation for this difficulty is that secondary buried faults are responsible for most of the recorded seismic events near the study area. Therefore, a moderate earthquake could occur closer to the site than the nearest mapped fault. The magnitude of this event would likely be less than a moment magnitude $M_w = 6.0$.

Table C-1. Significant Crustal Faults

Source	Closest Mapped Distance[1] (miles)	Mapped Length[1] (km)
Lacamas Lake Fault	6.4	24
Grant Butte Fault Zone	3.3	10
Damascus-Tickle Creek Fault Zone	4.2	16
East Bank Fault	6.2	29

1. reported by USGS (USGS, 2014)

SEISMIC RESPONSE ANALYSIS

RISK TARGETED BEDROCK SPECTRUM

We obtained a probabilistic bedrock spectrum for the site from the USGS national seismic mapping project. We determined the spectral accelerations for the outcropping bedrock response spectrum for periods ranging from 0 to 5 seconds. The response spectrum is consistent with a shear wave velocity equal to 760 meters per second in the upper 30 meters of the soil profile. ASCE 7-10 requires that the ground motions be defined in terms of the maximum direction of horizontal response. The maximum direction was adopted as the ground motion intensity parameter for use in lieu of explicit consideration of directional effects. The maximum horizontal response may reasonably be estimated by factoring the average response period by period dependent factors. The commentary to ASCE 7-10 recommends a factor of 1.1 at short periods, 1.3 at a period of 1 second, and 1.5 at 5 seconds and greater. They recommend interpolation between the periods.

The risk targeted bedrock spectrum, MCE_R, target bedrock spectrum was computed using Method 1 outlined in the ASCE 7-10 Section 21.2.1.1. A risk coefficient of $C_{RS} = 0.891$ was applied to the spectrum at periods of 0.2 second or less and a risk coefficient of $C_{R1} = 0.875$ was applied to the spectrum at periods greater than or equal to 1 second. Linear interpolation was used to compute risk coefficients between periods of 0.2 and 1.0 second. The intent of this is to achieve a 1 percent collapse of the structure in a 50-year period. Table C-2 presents a summary of values used to compute the MCE_R target bedrock response spectrum.

Table C-2. Risk Targeted Bedrock Spectrum

Period (seconds)	MCE Target Bedrock Spectral Acceleration (g)	Maximum Direction Factor	C_R	MCE_R Target Bedrock Spectral Acceleration (g)
0.0	0.4319	1.1	0.891	0.4233
0.1	0.9189	1.1	0.891	0.9006
0.2	1.0228	1.1	0.891	1.0024
0.3	0.8545	1.125	0.889	0.8546
0.5	0.6413	1.175	0.885	0.6669
1.0	0.3597	1.3	0.875	0.4092
2.0	0.1747	1.35	0.875	0.2064
3.0	0.09454	1.4	0.875	0.1158
4.0	0.05989	1.45	0.875	0.07600
5.0	0.03791	1.5	0.875	0.04976

BASE GROUND MOTIONS

Six recorded base ground motions were selected to represent the local seismic setting. We considered faulting mechanism, magnitude, and distance to recording station. Ground motions at the site are controlled by a crustal event and the CSZ interface event. We selected three acceleration time histories to represent each of these seismic sources as input for the seismic

response analysis. Table C-3 provides the ground motions selected for this study.

Table C-3. Selected Ground Motions

Ground Motion/Year/Recording Station	Magnitude	Distance (km)	Component
Crustal Records			
Imperial Valley/El Centro Array #8	6.53	5.61	140
Nahanni, Canada 1985 /Site 1	6.76	9.60	280
Imperial Valley/Parachute Test Site	6.53	13.5	315
Subduction Zone Records			
Michoacan-Caleta De Campos	8.1	115	00
Michoacan 1985/La Union	8.0	84	N00W
Chile 2010 - LACH	8.8	81.9	EW

SITE CONDITION MODELING

We determined acceleration response spectra for the postulated scenarios discussed above by performing a site-specific seismic response analysis. An equivalent linear seismic response analysis as described in ASCE 7-10 Section 21.1.2. The site response analysis was performed using the SHAKE 91+ module of the EZ-FRISK 8.0 software package.

The input soil model used in our analysis is based on the findings of our subsurface exploration program. A detailed description of site subsurface conditions is provided in the main report. We reviewed the site geology and nearby well logs for an understanding of the deep soil profile at the site. The well log near the site is presented in Appendix B. Shear wave velocities for the soils were estimated using SPT blow count and shear wave velocity correlations, as well as shear wave velocity measurements documented in similar geologic units (Palmer et al., 2004). Table C-4 summarizes the soil model used in our analysis. The acceleration response spectra produced by our equivalent linear seismic response analysis is presented on Figure C-3.

Table C-4. Input Soil Profile

Depth Interval (feet BGS)	Subsurface Unit	Shear Wave Velocity (feet per second)	Modulus Reduction Curve	Damping Curve
0 to 6	Silt	650	Vucetic and Dobry, 1991	Vucetic and Dobry, 1991
6 to 75	Dense to Very Dense Gravel with Sand	1,100 to 1,300	Gravel (Seed et al. 1986)	Gravel (Seed et al. 1986)
75 to 160[1]	Very Dense Gravel (Troutdale Formation)	1,400 to 1,800	Gravel (Seed et al. 1986)	Gravel (Seed et al. 1986)

1. Input ground motion applied at base of this layer.

DETERMINISTIC MCE_R RESPONSE SPECTRUM

The deterministic approach considers the maximum ground acceleration that may occur at the site as a result of a characteristic earthquake on all known active faults in the region. ASCE 7-10 Section 21.2.2 requires that the spectral response at each period be calculated as an 84^{th} percentile 5 percent damped spectral response acceleration in the direction of maximum horizontal response. However, the lower limit is computed in accordance with Figure 21.2-1 in ASCE 7-10, where F_a and F_v are determined using Tables 11.4-1 and 11.4-2 in ASCE 7-10. Figure C-4 shows the deterministic lower limit as prescribed by ASCE 7-10 Section 21.2.2.

SITE-SPECIFIC MCE_R RESPONSE SPECTRUM

As outlined in ASCE 7-10 Section 21.2.3, the site-specific MCE_R shall be taken as the lesser of the probabilistic MCE_R and the deterministic MCE_R. Figure C-4 shows the site-specific design response spectrum.

DESIGN RESPONSE SPECTRUM

ASCE 7-10 Section 21.3 states that the site-specific MCE_R response spectrum is reduced to two-thirds of the acceleration at any period. However, the lower bound for design ground motions is 80 percent of the generalized response spectrum as outlined in ASCE 7-10 Section 11.4.5.

DESIGN ACCELERATION PARAMETERS

To develop the final design response spectrum, the lesser of the values obtained from the probabilistic MCE and the deterministic MCE are taken at each period. The parameter S_{DS} is taken from the site-specific response spectrum at a period of 0.2 second but shall not be smaller than 90 percent of the peak spectral acceleration taken at any period larger than 0.2 second. The parameter S_{D1} is taken as the greater of the spectral acceleration at 1 second or two times the acceleration at 2 seconds. Figure C-5 shows the design response spectrum.

GEOLOGIC HAZARDS

In addition to ground shaking, site-specific geologic conditions can influence the potential for earthquake damage. Deep deposits of loose or soft alluvium can amplify ground motions, resulting in increased seismic loads on structures. Other geologic hazards are related to soil failure and permanent ground deformation. Permanent ground deformation could result from liquefaction, lateral spreading, landsliding, and fault rupture. The following sections provide additional discussion regarding potential seismic hazards that could affect the proposed development.

FAULT SURFACE RUPTURE

There are no mapped potentially active faults adjacent to or underlying the site. The nearest fault is mapped at least 2 miles from the site. Therefore, it is our opinion that the risk of fault rupture at the site is low.

LIQUEFACTION

Liquefaction is caused by a rapid increase in pore water pressure that reduces the effective stress between soil particles to near zero. Granular soil, which relies on interparticle friction for strength, is susceptible to liquefaction until the excess pore pressures can dissipate. In general,

loose, saturated sand soil with low silt and clay content is the most susceptible to liquefaction. Silty soil with low plasticity is moderately susceptible to liquefaction under relatively higher levels of ground shaking. The soil encountered during our subsurface exploration is not susceptible to liquefaction under design levels of ground shaking.

LATERAL SPREAD

Lateral spread is a liquefaction-related seismic hazard. Development areas subject to lateral spreading are typically gently sloping or flat sites underlain by liquefiable sediments adjacent to an open face, such as riverbanks. Liquefied soil adjacent to open faces may "flow" in that direction, resulting in surface cracking and lateral displacement towards the open face (i.e., riverbank). The magnitude of lateral spread decreases with distance from the open face. Lateral spreading is evaluated using procedures first developed by Bartlett and Youd and published in 1992. Since the site is not near an open face and has low susceptibility to liquefaction, lateral spreading is expected to be negligible at this site.

GROUND MOTION AMPLIFICATION

Soil capable of significantly amplifying ground motions beyond the levels determined by our site-specific seismic response analysis was not encountered during our subsurface investigation program. The main report provides a detailed description of the subsurface conditions encountered. We conclude the level of amplification determined by our response analysis is appropriate and the facility can be designed using the levels of ground shaking prescribed by the IBC.

LANDSLIDE

Earthquake-induced landsliding generally occurs in steeper slopes comprised of relatively weak soil deposits. The site is relatively flat, with low topographic relief; therefore, landslides do not present a risk at the site.

SETTLEMENT

Settlement due to earthquakes is most prevalent in relatively deep deposits of dry, clean sand. We do not anticipate that significant settlement in addition to liquefaction-induced settlement will occur during design levels of ground shaking.

SUBSIDENCE/UPLIFT

Subduction zone earthquakes can cause vertical tectonic movements. The movements reflect coseismic strain release accumulation associated with interplate coupling in the subduction zone. Based on our review of the literature, the locked zone of the CSZ is located in excess of 60 miles from the site. Consequently, we do not anticipate that subsidence or uplift is a significant design concern.

LURCHING

Lurching is a phenomenon generally associated with very high levels of ground shaking, which cause localized failures and distortion of the soil. The anticipated ground accelerations shown on Figure C-3 are below the threshold required to induce lurching of the site soil.

SEICHE AND TSUNAMI

The site is inland and elevated away from tsunami inundation zones and away from large bodies of water that may develop seiches. Seiches and tsunamis are not considered a hazard in the site vicinity.

LIMITATIONS

We have prepared this seismic hazard study for use by the design and construction team for the proposed Wilkes Elementary School. The conclusions presented in this report are based on the data available at the time this report was written.

Our seismic hazard study report, conclusions, and interpretations should not be construed as a warranty of subsurface conditions and earthquake ground motions. We have interpreted subsurface conditions based on our exploration and review of available geologic information. The design earthquakes and base rock accelerations referred to are based on review of available data, literature, and our previous experience.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted practices in this area at the time the report was prepared. No warranty or other conditions, express or implied, should be understood.

REFERENCES

ASCE/SEI 7-10; Minimum Design Loads for Buildings and Other Structures, Third Printing , incorporating errata, Supplement 1, and expanded commentary, 2013. ISBN 978-0-7844-7785-4

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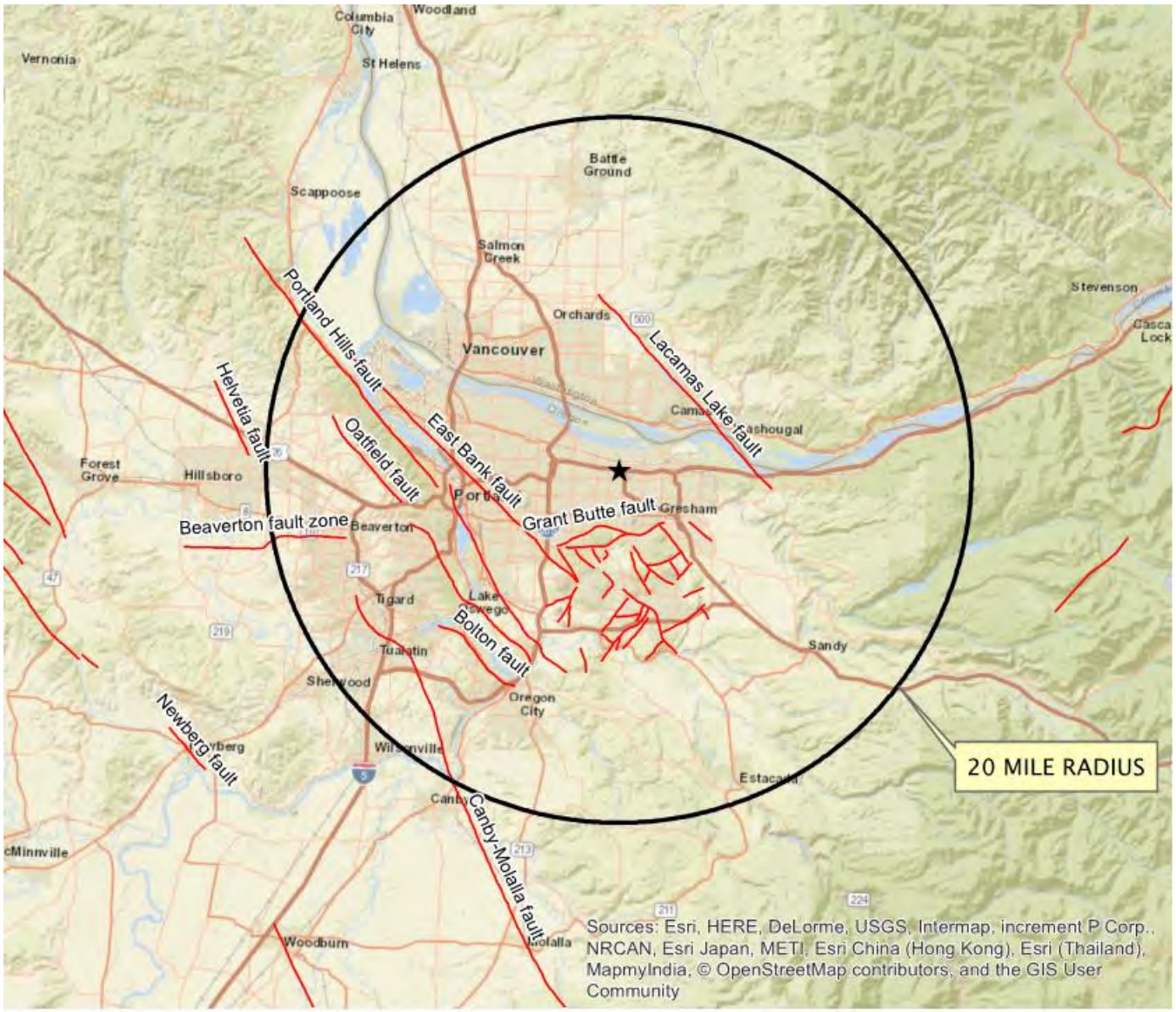
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LEGEND

★ SITE LOCATION

QUATERNARY FAULTS

N

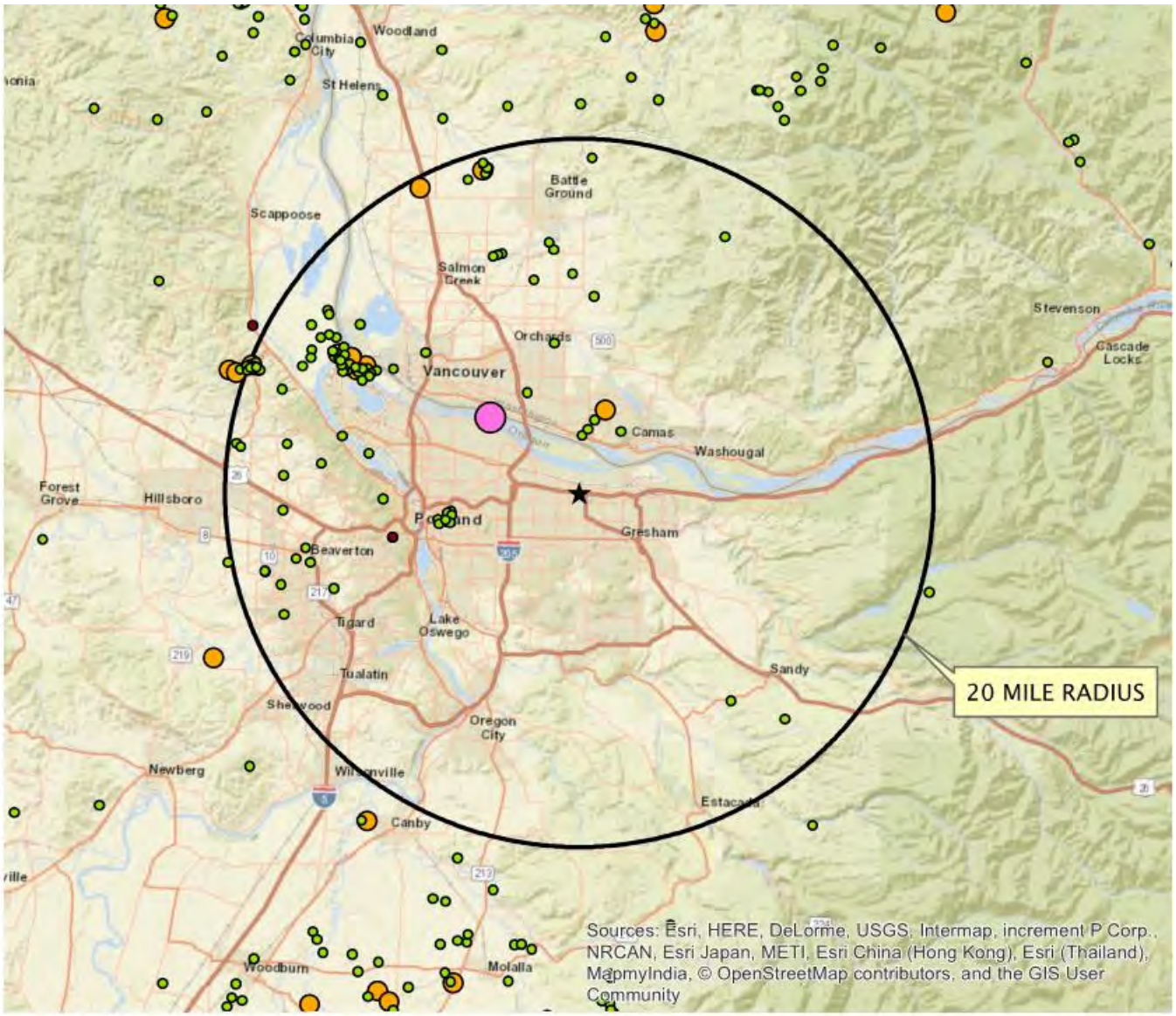
0 5 10

Miles

QUATERNARY FAULT DATA FROM USGS (2010)

GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-01	**QUATERNARY FAULT MAP**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE C-1**



LEGEND

★ SITE LOCATION

INSTRUMENTAL EARTHQUAKE MAGNITUDE

- 2.0 - 3.0
- 3.0 - 4.0
- 4.0 - 6.0
- > 6.0

MAXIMUM MODIFIED MERCALLI INTENSITY

MMI

- VI
- VII
- VIII

N

0 5 10

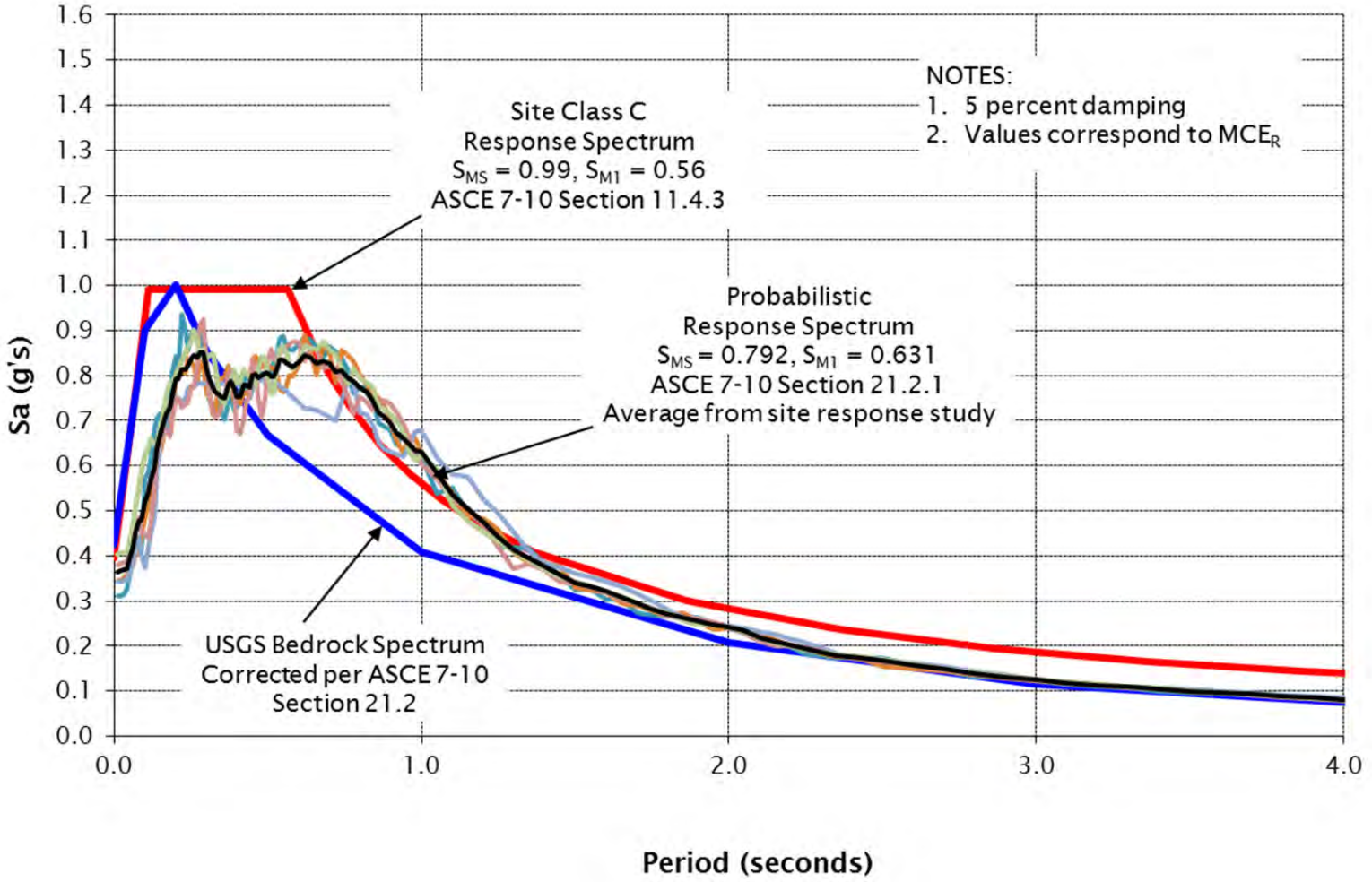
Miles

HISTORICAL MMI DATA FROM NGDC (2010)

INSTRUMENTAL MAGNITUDES FROM USGS (2014), PNSN (2014)

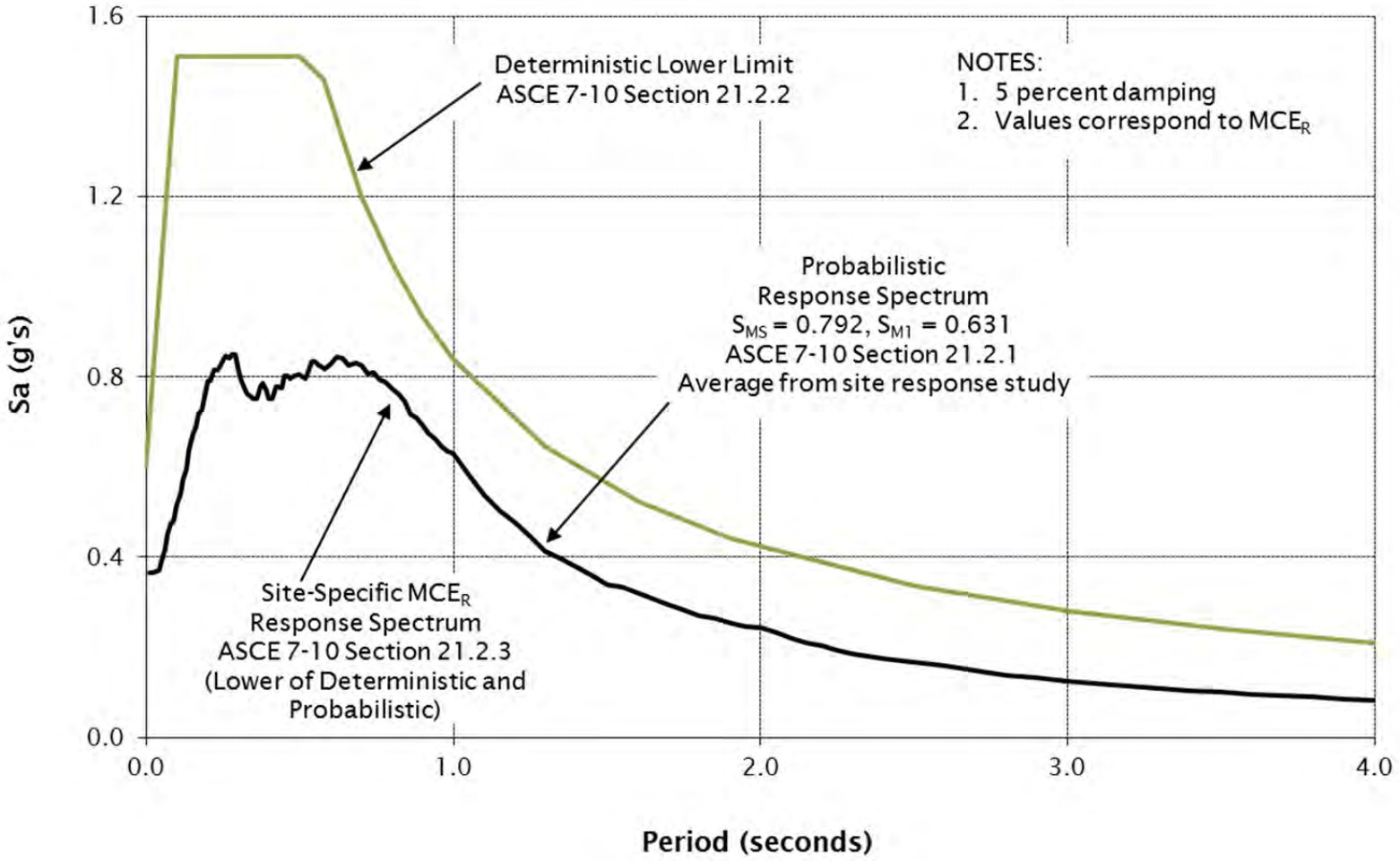
GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-01	**HISTORICAL SEISMICITY MAP**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE C-2**



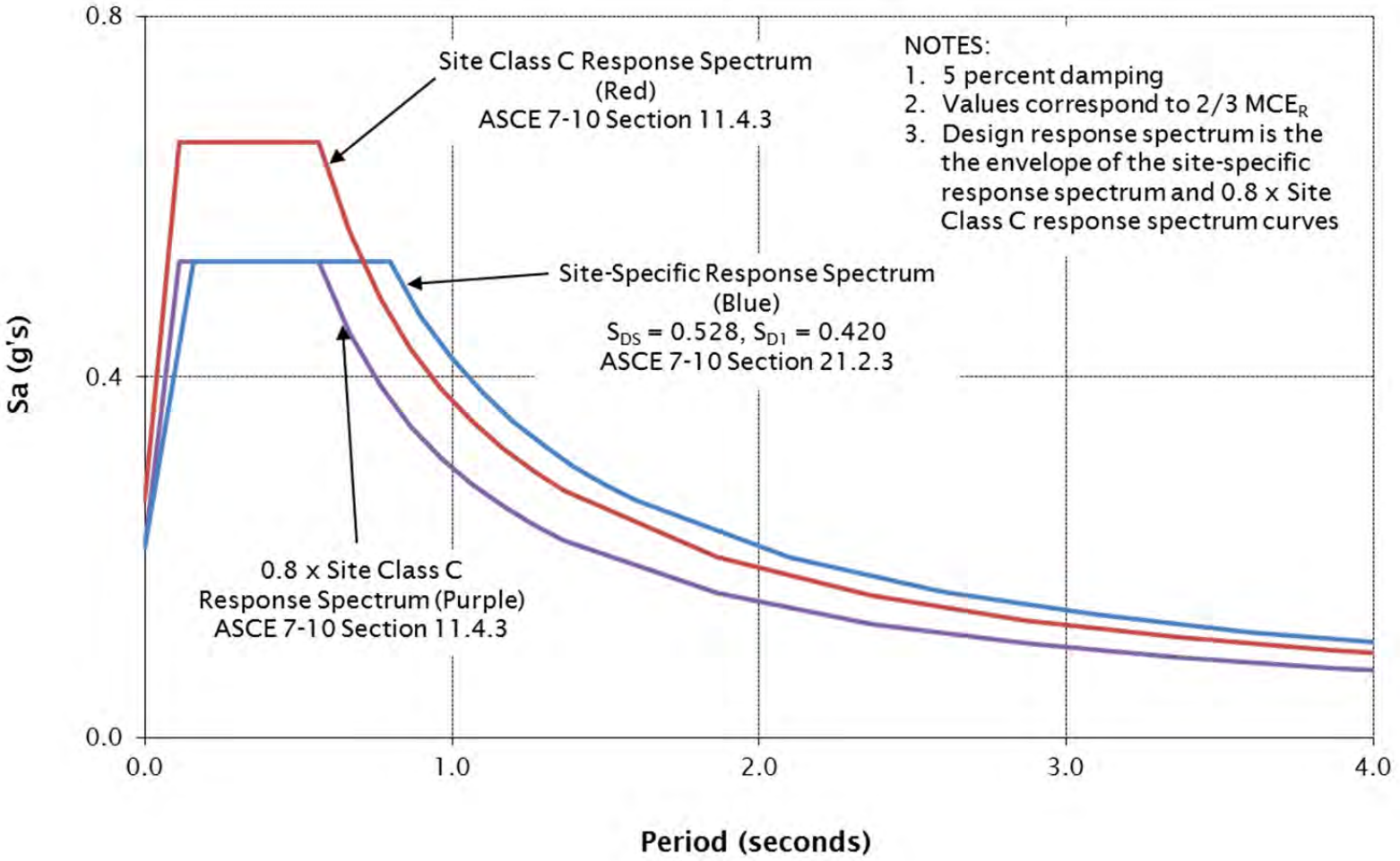
GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-01	**SITE RESPONSE SPECTRA**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE C-3**



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REYNOLDSSD-5-01	**SITE-SPECIFIC RESPONSE SPECTRA**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE C-4**



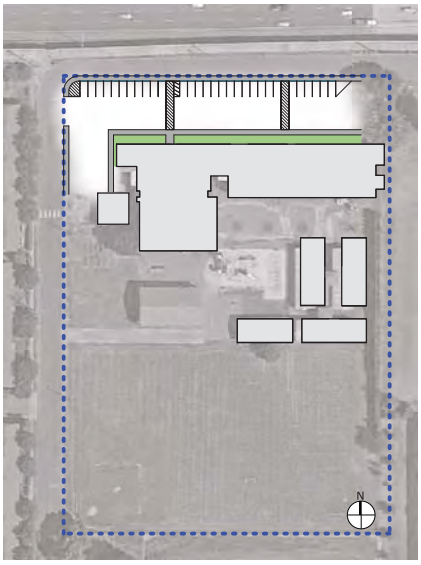
GEODESIGN INC
15575 SW Sequoia Parkway - Suite 100
Portland OR 97224
Off 503.968.8787 Fax 503.968.3068

REYNOLDSSD-5-01	**DESIGN RESPONSE SPECTRUM**	
APRIL 2016	WILKES ELEMENTARY SCHOOL GRESHAM, OR	**FIGURE C-5**

APPENDIX D

2.30 WILKES ELEMENTARY









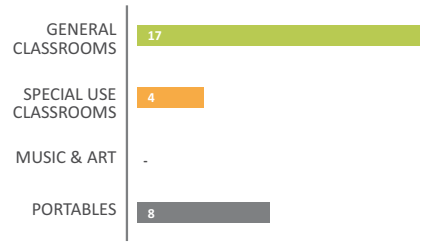
30 17020 NE WILKES ROAD
GRESHAM, OR 97230

FACILITY SUMMARY

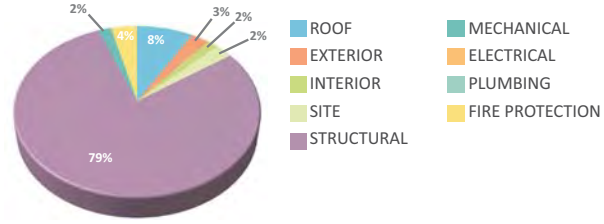
In the early 1860's a school house was built out of logs with two windows and a door and called it Wilmot School after one of the builders. Around 1880, the Directors built a one story frame building which William Wilkes and Sarah Wilkes donated to the District along with one acre for the purposes of a school. The school was named in honor of their donation. Wilkes has adopted a program developed by the University of Oregon called "Positive Behavior Support". "PBIS" is a school culture to shape positive behavior and a positive school climate to provide a better learning atmosphere. Wilkes earned a state overall rating of level 4 and has upgraded their curriculum to include full day kindergarten and have welcomed an additional 80 students this year.

CITY	Gresham
YEAR BUILT ADDITIONS	1913 1938/48/49/73/76/92/94/01+
BUILDING AREA	40,150 sf
SITE AREA	5.16 acres
STUDENT POPULATION	474
PRIMARY STRUCTURE	Wood framing & CMU
ROOF TYPE	Built-up & Corrugated Metal

ROOM TYPE DISTRIBUTION



FACILITY REPAIR COST ALLOCATION

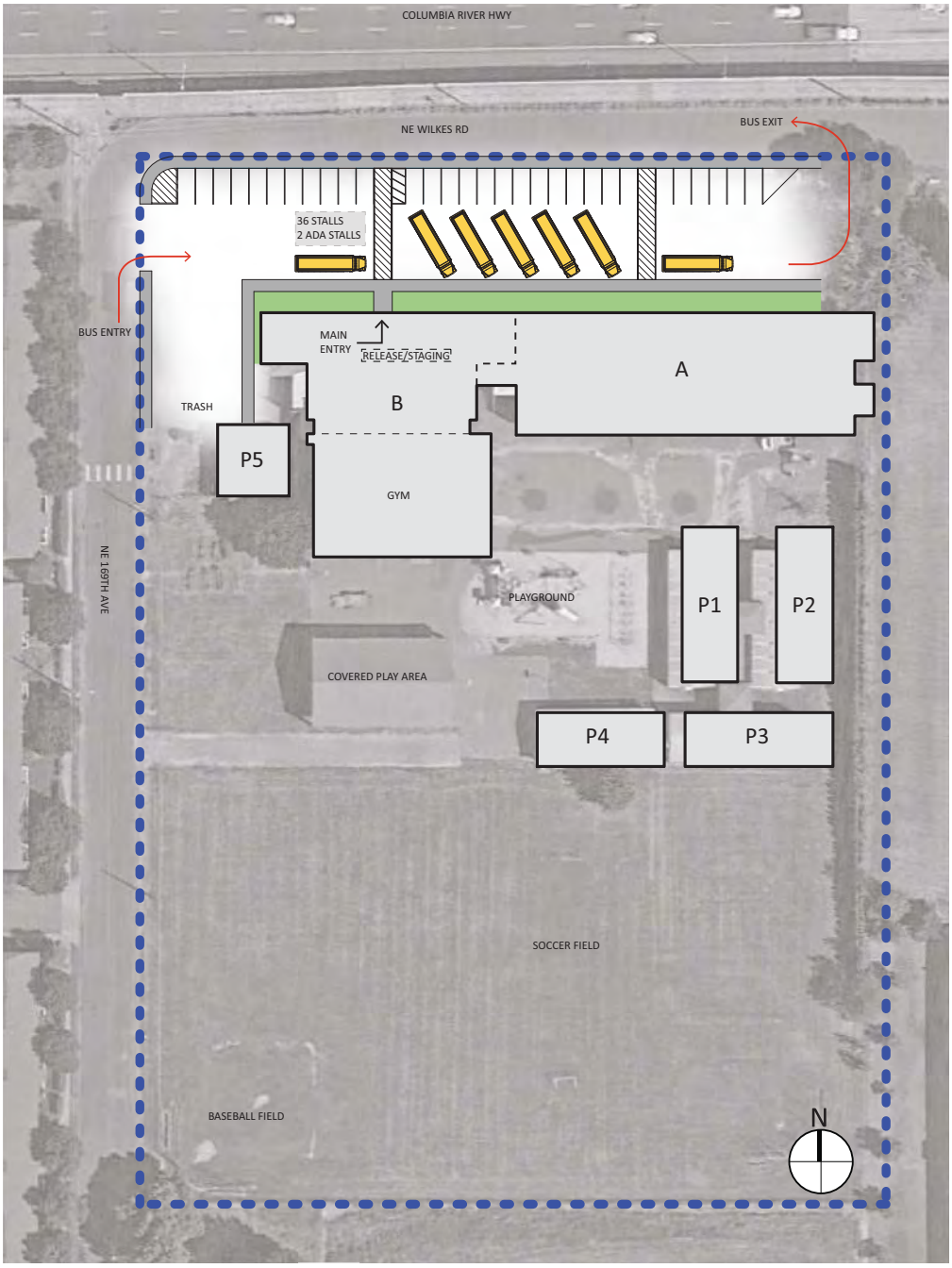


FACILITY CONDITION INDEX



2.30 WILKES ELEMENTARY

TRANSPORTATION ASSESSMENT

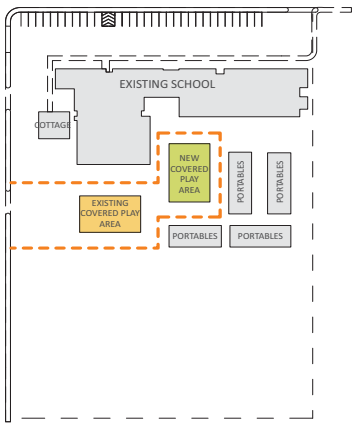


SITE PLAN
NOT TO SCALE

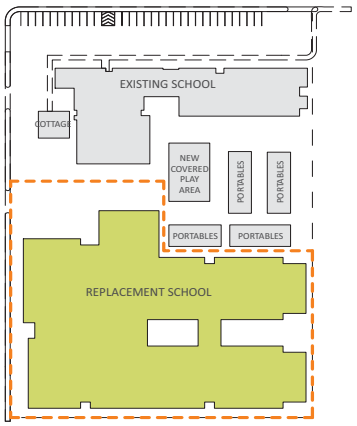
2.30 WILKES ELEMENTARY

FACILITY REPLACEMENT PHASING PLAN

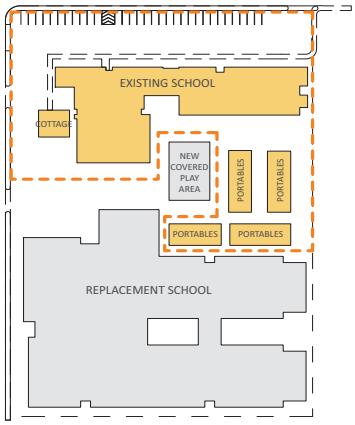
PHASE 1: BUILD NEW COVERED PLAY AREA



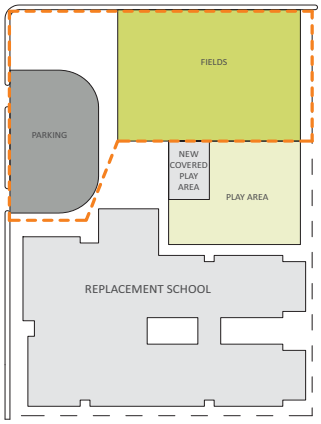
PHASE 2: CONSTRUCT REPLACEMENT SCHOOL



PHASE 3: DEMOLISH EXISTING SCHOOL



PHASE 4: RE-WORK SITE/BUS AND FIELDS



LEGEND

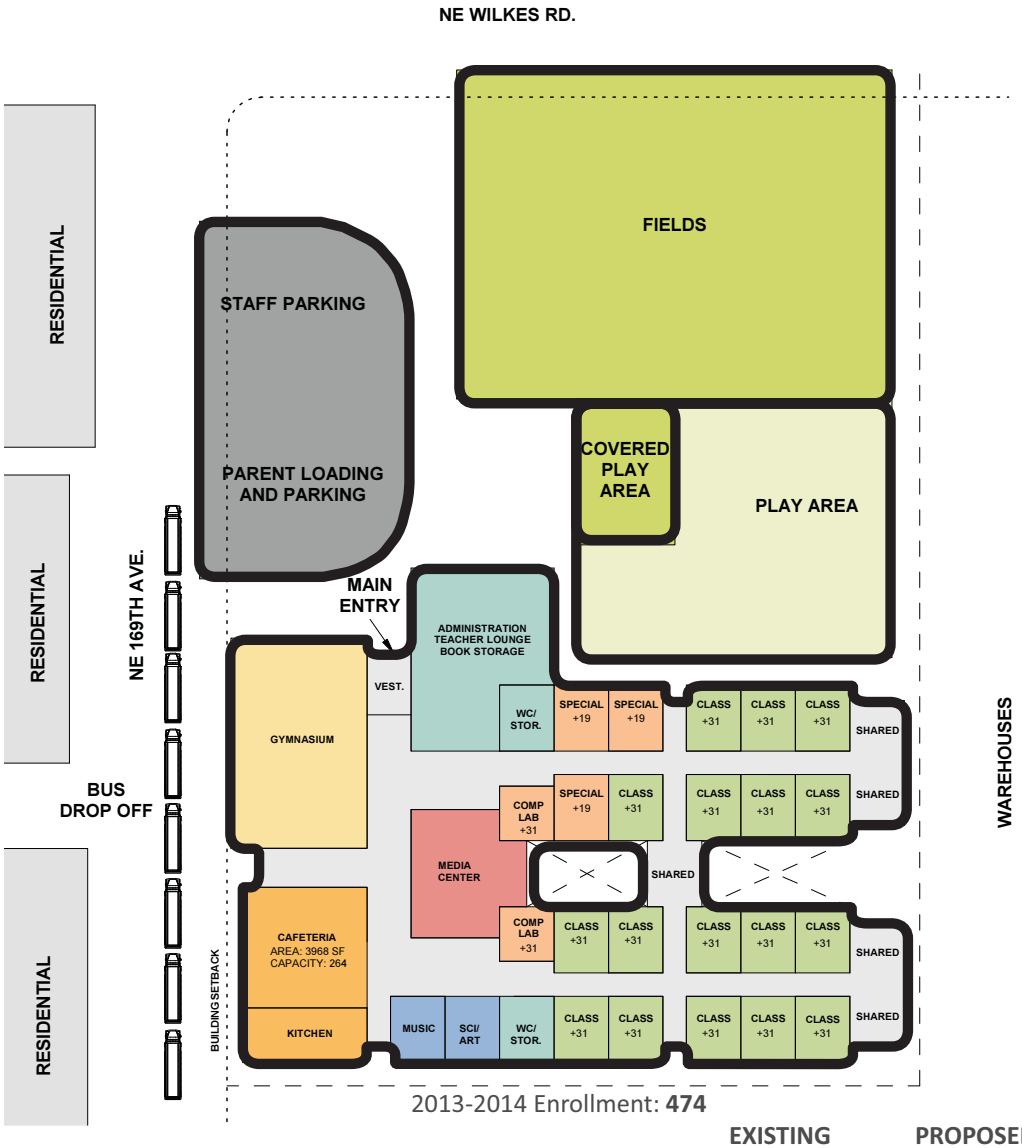
- NEW CONSTRUCTION
- RENOVATION OF EXISTING
- DEMOLITION
- BUS PATH OF TRAVEL
- PARENT PATH OF TRAVEL

SITE PLAN
NOT TO SCALE

N

2.30 WILKES ELEMENTARY

SITE DEVELOPMENT CONCEPT PLAN



2013-2014 Enrollment: **474**

BUS SUMMARY

CURRENT ENROLLMENT: 474
CURRENT BUS COUNT: 6 large

PROPOSED CAPACITY: 527
PROPOSED BUS COUNT: 8 large

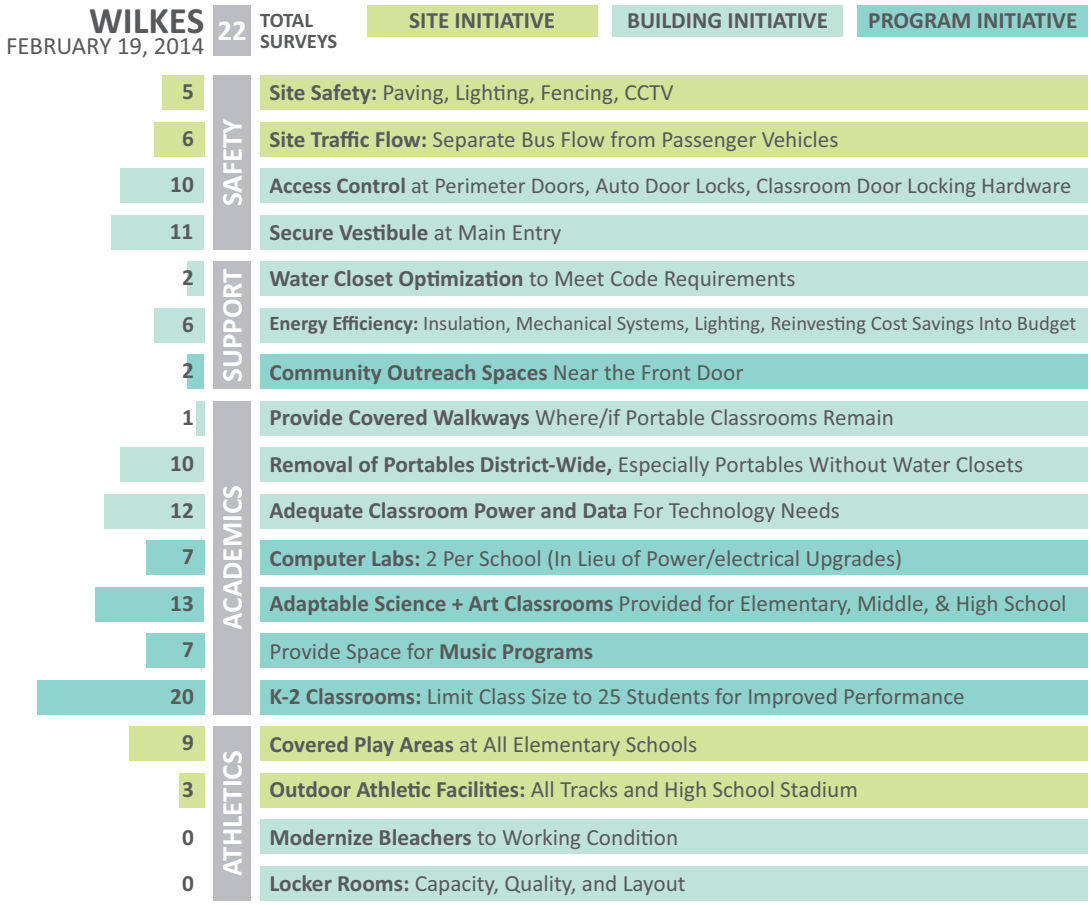
LARGE: MAXIMUM 70 ELEMENTARY STUDENTS/BUS
SMALL: MAXIMUM 45 ELEMENTARY STUDENTS/BUS

	EXISTING	PROPOSED
Building Area (sf):	40,150	66,076
Programmed Capacity:	451	527
Gross Area Per Student:	89 SF	125 SF
Full day kindergarten:	YES	YES
General Classrooms:	17	17
Special Use Classrooms:	4	3
Computer labs:	1	2
Music & Science/Art:	0	2
Portables:	8	0
Cafeteria Area (sf):	1400	3968
Cafeteria Capacity:	93	264

FIRST FLOOR PLAN
NOT TO SCALE

2.30 WILKES ELEMENTARY

STAFF PRIORITY VOTING RESULTS



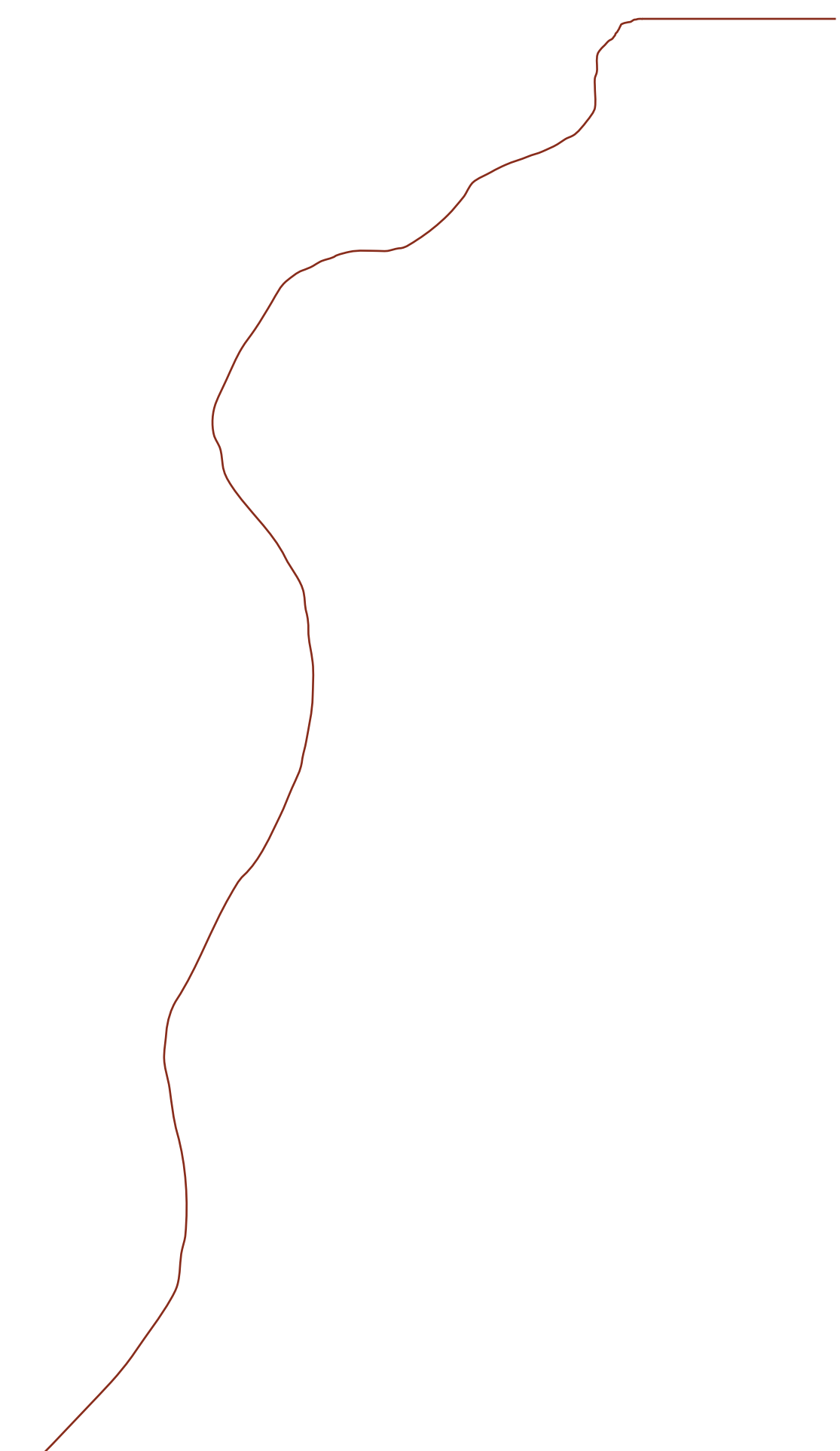
COMMENTS/QUESTIONS

- Limit intermediate (3-5) classrooms to 30 students max
- #1 priority: limit class size to 25 for K-12 classrooms (2)
- Need reasonable (29?) class sizes for 3-5 (2)
- Limit class size for 3-5 classrooms to 25
- 3-5 classrooms limit 28 or less
- Lower class size for all grades

ACRONYMS AND ABBREVIATIONS

ACRONYMS AND ABBREVIATIONS

AASHTO	American Association of State Highway and Transportation Officials
AC	asphalt concrete
ACP	asphalt concrete pavement
ASCE	American Society of Civil Engineers
ASTM	American Society for Testing and Materials
BGS	below ground surface
CSZ	Cascadia Subduction Zone
ESA	Environmental Site Assessment
ESAL	equivalent single-axle load
g	gravitational acceleration (32.2 feet/second^2)
H:V	horizontal to vertical
IBC	International Building Code
km	kilometers
MCE	maximum considered earthquake
MCE_R	risk-targeted maximum considered earthquake
OSHA	Occupational Safety and Health Administration
OSSC	Oregon Standard Specifications for Construction (2015)
OWRD	Oregon Water Resources Department
pcf	pounds per cubic foot
PG	performance grade
PGA	peak ground acceleration
psf	pounds per square foot
psi	pounds per square inch
SOSSC	State of Oregon Structural Specialty Code
SPT	standard penetration test
UIC	underground injection control
USGS	U.S. Geological Survey
UST	underground storage tank



FINDINGS OF FACT
FOR EXEMPTION FROM COMPETITIVE BIDDING AND
THE USE OF THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR (CM/GC) METHOD OF CONTRACTING FOR REYNOLDS SCHOOL DISTRICT #7
THREE NEW REPLACEMENT ELEMENTARY SCHOOLS

1. General

ORS 279C.335(2) permits a local contract review board to exempt contracts from traditional competitive bidding upon approval of findings of fact showing that an alternative contracting process is unlikely to encourage favoritism or diminish competition and that the process will result in substantial cost savings to the School District. The Reynolds School District ("District"), through its School Board, acts as the Local Contract Review Board ("LCRB") for the District.

ORS 279C.400 – ORS 279C.410 describe the Request for Proposals method of solicitation as an alternative to traditional competitive bidding. Pursuant to ORS 279C.410(8), a public Agency using the Request for Proposals method may award a contract to the responsible proposer "whose proposal is determined in writing to be the most advantageous to the contracting agency based on the evaluation factors set forth in the request for proposals and, when applicable, the outcome of any negotiations authorized by the request for proposals."

ORS 279C.330 defines "Findings" and identifies specific information to be provided as a part of the District justification. Under ORS 279C.335(5) a public hearing must be held before the findings are adopted, allowing an opportunity for interested parties to comment on the draft findings.

PURPOSE OF THESE FINDINGS: The Reynolds School District will hold a public hearing as required by ORS 279C.335 and makes the following findings with respect to the issue of whether three new replacement Elementary School projects ("Projects"), as defined herein, should be exempt from competitive bidding. The District seeks to utilize the CM/GC method of alternative method of contracting. The Findings of Facts apply to the CM/GC method of public improvement Projects described below, in accordance with ORS 279C.335(2).

2. Background

Reynolds School District serves 11,722 students in 18 schools.

After a two-year facilities study, the facilities master plan was adopted in October 2014. A community task force then prioritized the Projects. The bond measure would pay for $125 million of the Projects. The tax rate is estimated to be the same as the 2014 tax rate.

The District plans to replace three of its oldest schools on their current properties. Fairview and Troutdale elementary schools are 88 years old and Wilkes is 101 years old. According to the

facilities study, the high school is over student capacity by 750 students. Proceeds from the bond would add classroom space, renovate science labs, and make technology and security improvements at all schools.

Specifically, this bond measure would allow the District to pay for capital construction and improvements to schools:

- Constructing, furnishing and equipping three new elementary school buildings on their present sites of Fairview, Troutdale and Wilkes, including demolition and related site improvements. This will include anticipated off-site improvements as well as design and construction of new play areas and green spaces.

The nature of these Projects will require strategic planning, complicated scheduling, and critical coordination of construction and target value design integrated with necessary safety measures. These Projects will be at a higher risk and have a high level of technical complexity due to the amount of renovation work, will be governed by significant schedule constraints with security and safety concerning children occupying the sites during much of the construction, will require complex phasing, and will contain budget limitations that require close monitoring of these Projects' budget. Therefore, it becomes critical to maintain schedule, budget, safe and secure sites for these Projects.

In consideration of these facts, an alternate method of construction of these public improvements should be considered. Therefore, the following findings support an exemption from competitive bidding and the use of the Request for Proposal for Construction Manager/General Contractor services as an alternative method of construction contracting.

FINDINGS OF FACT

SUMMARY FINDINGS

Use of the CM/GC process for the "Projects" complies with the criteria outlined in ORS 279C.335(2):

1. It is unlikely the exemption will encourage favoritism or substantially diminish competition. The selection process will be fair and open to all interested proposers as established within the findings below.

2. The exemption will result in substantial cost savings to the District. The District has found several areas in which substantial cost savings to the District will be achieved. Also, value will be added to the Projects that could not otherwise be obtained.

SPECIFIC FINDINGS which substantiate the summary findings are as follows:

1. **The CM/GC will be selected through a competitive process in accordance with the qualifications-based selection process authorized by the District. Therefore, it is unlikely that the awarding of the construction contract for the Projects will encourage favoritism or substantially diminish competition. This finding is supported by the following:**

   A. SOLICITATION PROCESS: Pursuant to ORS 279C.360, the CM/GC solicitation will be advertised at least once in the Daily Journal of Commerce, and in as many additional issues of publication as the District may determine.

   B. FULL DISCLOSURE: To ensure full disclosure of all information, the Request for Proposals solicitation package will include:

      a. Detailed Description of the Projects
      b. Contractual Terms and Conditions
      c. Selection Process
      d. Evaluation Criteria
      e. Role of Evaluation Committee
      f. Provisions for Comments
      g. Complaint Process and Remedies Available

   C. COMPETITION: As outlined below, the District will follow processes which maintain competition in the procurement of a CM/GC.

      a. The District anticipates that competition for this contract will be similar to that experienced in other projects of this type. The competition will remain open to all qualifying proposers.

      b. The District has been communicating with the construction contracting community as well as the engineering consulting community about the CM/GC contracting method.

      c. The evaluation and solicitation process employed will be open and impartial. Selection will be made on the basis of final proposal scores derived from price and other components, which expand the ground of competition beyond price alone to include experience, quality, innovation factors, etc.

      d. The competitive process used to award subcontracts for all competitively bid construction work will be specified in the CM/GC contract and will be monitored by the District. The District will designate in the contract the proposed percentage of construction work that must be subcontracted and may not be self performed by the CM/GC.

D. SELECTION PROCESS: Other highlights of the selection process will include:

a. A pre-proposal vendor conference will be announced and held. This conference will be open to all interested parties. During this pre-proposal conference, as well as any time prior to ten (10) days before the close of the solicitation, interested parties will be able to ask questions, request clarifications and suggest changes in the solicitation documents if such parties believe that the terms and conditions of the solicitation are unclear, inconsistent with industry standards, or unfair and unnecessarily restrictive of competition.

b. The evaluation process will determine whether a proposal meets the screening requirements of the RFP, and to what extent. The following process will be used:

- Proposals will be evaluated for completeness and compliance with the screening requirements of the RFP. Those proposals that are materially incomplete or non-responsive will be rejected.

- Proposals considered complete and responsive will be evaluated to determine if they meet and comply with the qualifying criteria of the RFP. If a proposal is unclear, the proposer may be asked to provide written clarification. Those proposals that do not meet all requirements will be rejected.

- Proposals will independently be scored by the voting members of the Evaluation Committee. Scores will then be combined and assigned to the proposals.

- The Evaluation Committee will convene to select from the highest-scoring proposers, a finalist(s) for formal interviews.

- The Evaluation Committee will conduct the interviews.

- The Evaluation Committee will use the interview to confirm the scoring of the proposal and to clarify any questions. Based upon the revised scoring, the Evaluation Committee will rank the proposers, and provide an award recommendation.

- The Reynolds School District will negotiate a contract with the top-ranked firm. If an agreement cannot be reached, the District will have the option to enter into an agreement with the second-ranked firm, and so forth.

c. Competing proposers will be notified in writing of the selection of the apparent successful proposal and will be given seven (7) calendar days after receipt of the notice to review the RFP file and evaluation report at the District Office. Any questions, concerns, or protests about the selection process will be subject to the requirements of the OAR 137-0 49-0450, must be in writing, and must be delivered to the Reynolds School District within seven (7) calendar days after receipt of the

selection notice. No protest of the award selection shall be considered after this time period.

d. The contract achieved through this process will require the CM/GC to use an open competitive selection process to bid all components of the job. The CM/GC's general conditions and fee makes up 10-15% of the total cost, and will be evaluated as one of the scoring criteria. General Conditions, which include supervision, bonding, insurance, and mobilization, must be within the industry standard range of approximately 10%. The CM/GC's fee must be within the industry standard range of 3-5%. Since these amounts will be scored as part of the competitive RFP process, the entire dollar value of the Projects will be awarded through open competitive processes, at either the general contractor or subcontractor level.

2. FINDING: The awarding of construction contract(s) for the Projects using the CM/GC method will likely result in substantial cost savings to the District. This finding is supported by the following information required by ORS 279C.335(2)(b) and ORS 279C.330.

A. OPERATIONAL, BUDGET, FINANCIAL DATA

a. BUDGET: The District has a fixed budget available for the "Projects" that cannot be exceeded. The completion date cannot be exceeded. Early reliable pricing provided by the CM/GC or other alternatively contracted contractor during the design phase will reduce the potential for time delays due to later discovery of higher-than-anticipated costs and consequent changes of direction.

b. LONG TERM COSTS: The Projects will require expertise regarding the constructability and long-term cost/benefit analysis of innovative design. That knowledge is best obtained directly from the construction industry. Many decisions will be required during the design process that will encompass immediate feedback on constructability and pricing. Under the traditional design-bid-build process, there is a high risk of increased change orders and schedule impacts for Projects of this size and complexity. Since there are significant costs associated with delay, time is of the essence. The CM/GC process will assist in providing a scope of work and constructible design that best meet the requirements of the Projects with significantly lower risk to the Projects' costs. Involving the CM/GC during design will allow Projects' risks to be addressed early and teamwork between the District, the design consultant, and the construction contractor (CM/GC) to minimize those risks.

c. FEWER CHANGE ORDERS: When the CM/GC participates in the design process, fewer change orders occur during project construction. This is due to the CM/GC's better understanding of the owner's needs and the architect's design intent. As a result, the Projects are more likely to be completed on time and within budget. In addition, fewer change orders reduce the administrative costs of project management for both the District and the contractor.

d. GMP CHANGE ORDERS COST LESS: The fewer CM/GC change orders discussed above will be processed at a lower cost under the GMP. The design-bid-build method typically results in the contractor charging 15% markup on construction change orders. The GMP method applies lower predetermined markups. The experience of the industry has been that the markup is in the range of 3-5%.

e. SAVINGS: Under the GMP method the District will enjoy the full savings, if actual costs are below the GMP. When the CM/GC completes the Projects, any savings between the GMP and the actual cost accrue to the District.

f. CONTRACTOR'S FEE IS LESS: Contracts with CM/GC's are designed to create a better working relationship with the contractor. As a consequence, the overhead and profit fee is generally in the 3-5% range, and the contractors indicate this is slightly lower than the fee anticipated on similar design-bid-build contracts.

g. FUNDING SOURCE: The Projects will be funded by the sale of general obligation bonds.

B. PUBLIC BENEFITS

a. TIME SAVINGS: Use of CM/GC or other alternative contracting methods will allow construction work to commence relatively rapidly on some portions of the work while design continues on the remaining portions. This will shorten the overall duration of the construction and provide for completion of the Projects by the due date. It becomes critical to maintain both the schedule and budget of these Projects that the coordination of the District personnel and their facilities be fully evaluated and understood, and that construction work proceeds throughout with all necessary care given to the safety security of the District's students and personnel.

b. COST SAVINGS: The Projects will benefit from the active involvement of a CM/GC contractor or other alternative contracting method during the design process in the following ways:

- The contractor's input regarding the constructability and cost-effectiveness of various alternatives will guide the design toward the most economic choices.

- Consideration of the specific equipment available to the contractor will allow the designer to implement solutions that utilize the capacity of that equipment.

- The contractor will be able to provide current and reliable information regarding the cost of materials that are experiencing price volatility and the availability of scarce materials.

- The contractor will also be able to order materials while design is being completed in order to avoid inflationary price increases and provide the lead-time that may be required for scarce materials.

c. GUARANTEED MAXIMUM PRICE (GMP) ESTABLISHES A MAXIMUM PRICE PRIOR TO COMPLETION OF DOCUMENTS: The CM/GC will be able to obtain a complete understanding of the District's needs, the architect's design intent, the scope of the Projects, and the operational needs of the individual School Projects by participating in the construction document phase. With the CM/GC participating in this phase they will be able to offer suggestions for improvement and make suggestions that will reduce costs. With the benefit of this knowledge, the CM/GC will also be able to guarantee a maximum price to be paid by the District for constructing the Projects.

C. **VALUE ENGINEERING**

a. **WITH THE DESIGN-BID-BUILD PROCESS:** If the District were to utilize the design-bid-build method, the contractor would not participate in this evaluation. In conducting value engineering under the design-bid-build approach, a value engineering consultant is hired to participate in the design and cost evaluation process. This process adds extra costs and administrative complications, without providing the same benefits of early contractor participation.

b. **WITH CM/GC:** The CM/GC process offers a unique opportunity for value engineering that is not possible through the design-bid-build process. An essential part of each construction project is the value engineering evaluation. Value engineering is the means used to determine the best project design that meets the needs and priorities of the owner, within the owner's budget. Value engineering is done most effectively by a team consisting of the owner, architect, consultants, and the contractor. When the contractor participates, the team can render the most comprehensive evaluation of all factors that affect the cost, quality, and schedule of the project.

The CM/GC method has the benefit of:

-the ability to set the schedule;
-the ability to sequence work; and
-commitment from the contractor to implement the design within the schedule and budget.

Through integrated participation, a project's scope and design evolve that has greater value for the owner, and is not likely to be the same project created by the design-bid-build method.

D. **SPECIALIZED EXPERTISE:** Early selection of the CM/GC creates more informed, better quality decision making by the project's construction team. A more efficient construction team saves the District money.

The construction Projects are highly complex because they involve significant construction over a short mandated period of construction. Use of a CM/GC in conjunction with the team approach will result in better coordinated projects, speedy completion, and minimize disruption to operations. The CM/GC clarifies several critical variables valuable to the

Projects' design. The CM/GC: guarantees the maximum price (GMP) to complete the Projects; determines the construction schedule; establishes the sequence of work; is contractually bound to implement the final Projects' design within the GMP; and participates as an essential member of the Projects' design and construction team.

Several benefits of participation by the CM/GC on these Projects will be realized: developing the design documents to reflect the best work plan that accommodates the District, the design team, and contractor; the best grouping of the bid packages that will help insure better trade coverage; the most efficient construction staging area on 2015 Bond Projects; the most cost effective route through the campus and buildings for the various utilities; and to help in adjusting the work plan when the needs change along the way. This component cannot be addressed by the usual design/bid/build method of construction because the usual method is skewed towards the lowest bidder.

E. PUBLIC SAFETY: All work must be coordinated to avoid safety and security risks to the students, employees, and the general public and to ensure efficiency in construction. The coordination between the District, designer and the CM/GC will assure coordination of work and consideration for the safety of vehicular and pedestrian paths crossed by the Projects. In addition, CM/GC contracting of the Projects will ensure that public safety and security is being effectively managed in a "fast track" mode to minimize delays.

F. MARKET CONDITIONS: As well as the multitude of construction market factors that exist today in Oregon (e.g., competition of other projects, environmental issues that limit construction materials, variable bid market, high unemployment, etc.), the difficulty in establishing the best work sequence complicates our ability therefore, to accurately estimate the cost of these Projects. The economy today makes it necessary for many contractors to bid for jobs for which they might not be qualified. Alternative contracting methods will be more likely to result in a more experienced and better suited contractor for these particular Projects than the usual competitive procurement. The complexities which need to be addressed to accomplish the tasks are not well served by the usual competitive procurement. The lowest bidder may not be the best suited for these particular Projects.

G. **TECHNICAL COMPLEXITY:** Technical expertise will be required for environmental management, quality management, scheduling, estimating, meeting sustainable facilities standards and guidelines, and ensuring energy efficiency. The complexity and scheduling issues discussed in the Background section above will require special expertise. However, the Projects will draw upon existing skills and capabilities available in the construction community, as the Projects present overall challenges similar to those faced on many public works projects. Specialized skills will be required of the CM/GC to negotiate and price multiple options and schedule complex tasks. A high level of coordination among the District and all the design and construction entities is required and facilitated by the CM/GC approach.

H. **FUNDING SOURCES:** The District intends to fund the Projects with the sale of general obligation bonds providing the available funds of $125,000,000, as provided from the 2015 Bond Election last May.

RESOLUTION NO. LCRB 2015-2016-002

RESOLUTION GRANTING EXEMPTION FROM COMPETITIVE BIDDING FOR CONSTRUCTION OF 2015 BOND PROJECTS BY MEANS OF A CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND AUTHORIZING SELECTION BY REQUEST FOR PROPOSALS

WHEREAS, the Reynolds School District ("District") acts as the local contract review board for the District, and in that capacity has authority to exempt certain contracts from the competitive bidding requirements of ORS Chapter 279C; and

WHEREAS, ORS 279C.335(2) provides a process for exempting certain contracts from competitive bidding and authorizes the selection of a contractor through the request for proposal ("RFP") process; and

WHEREAS, draft findings ("Findings") addressing competition, operational, budget and financial data, public benefits, value engineering, specialized expertise required, market conditions, technical complexity, public safety and funding sources recommended by the District were available 14 days in advance of the public hearing on this Resolution; and

WHEREAS, the District determines that the **Three New Replacement Elementary School Projects** should be constructed by a CM/GC. NOW THEREFORE,

The District finds as follows:

1. The District adopts the Findings set forth in Exhibit A to this Resolution.

2. The exemption of the CM/GC contract from competitive bidding will promote competition and will not encourage favoritism, because the CM/GC will be chosen by the request for proposals process, and the major portion of the construction work will be performed by subcontractors chosen by competitive bidding.

3. The exemption of the CM/GC contract from competitive bidding is likely to result in substantial cost savings to the District, for the reasons set forth in the adopted Findings.

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NOW, THEREFORE, IT IS HEREBY RESOLVED by the District as follows:

The contract for construction of **Three New Replacement Elementary Schools** by a Construction Manager/General Contractor for a Guaranteed Maximum Price is exempt from competitive bidding, and the CM/GC shall be selected by the Request for Proposal method in accordance with the District's public contracting rules and the process described in the Findings.

This Resolution shall take effect on December 9, 2015.

ADOPTED this 9 day of December, 2015, by the Reynolds School District Board of Directors acting as the Local Contract Review Board.

Dane Nickerson, Chair
Reynolds School District

ATTEST:

Dr. Linda Florence, Superintendent