Environmental Assessment
Determinations and Compliance Findings for HUD-assisted Projects
24 CFR Part 58

Project Information

Project Name: Skokomish Tribal Housing Project (t3ba’das Housing Project)

Responsible Entity: Skokomish Indian Tribe

Grant Recipient: Skokomish Indian Tribe

State/Local Identifier: DUNS 145310819

Preparer: Acorn Environmental

Certifying Officer Name and Title: Thomas Strong CEO

Consultant: Acorn Environmental

Direct Comments to:
Thomas Strong CEO
tstrong@skokomish.org
80 North Tribal Center Road
Skokomish, WA 98584
**Project Location:** The Project site is located on the northern portion of the Skokomish Indian Tribe’s Reservation in unincorporated Mason County. Regional access to the Project site is provided by U.S. Highway 101. A regional map and topographic map with the Project site are included as Figures 1 and 2, respectively. From U.S. Highway 101, the Project is accessible from Stevens Road and North Herring Road. An aerial photograph with the Project site is included as Figure 3.

**Description of the Proposed Project** [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:
The Project includes the construction of seven single-family homes, including five three-bedroom homes, and two four-bedroom homes. A site plan is included as Attachment 1. The proposed homes are shown as Lots 6, 8, 12, 13, 15, 16 and 18. As shown in Attachment 1, retaining walls would be constructed in multiple locations next to proposed homes. An existing stormwater detention basin would be expanded as part of the Project. The stormwater detention basin would be expanded approximately 25 feet to the north and east and 100 feet to the west. The sides of the expanded basin would be sloped to a depth of approximately 10 feet to meet the existing basin bottom. The proposed homes are located in an existing Tribal housing development where housing lots have been graded and roadway and utility infrastructure has been constructed to serve the housing lots. As such, no mass grading or off-site infrastructure improvements would be needed. Construction is anticipated to start in Spring of 2023.

**Statement of Purpose and Need for the Proposal** [40 CFR 1508.9(b)]:
More than half of the Skokomish Core Reservation, including residential areas and the majority of tribal government services, lie within areas susceptible to flooding. Flooding poses significant challenges to governmental, economic, and residential development; and as climate change accelerates, much of those lands will be increasingly underwater and will soon be uninhabitable or undevelopable. Additionally, portions of the Reservation would be costly and difficult to develop due to topography and lack of existing infrastructure. The Project site is outside of the 100-year floodplain and provides an opportunity for development of a Tribal residential community where infrastructure has already been established. The Skokomish Indian Tribe has approximately 778 enrolled members with numerous Tribal members on the waiting list for affordable housing. The proposed homes would supply a portion of this need.

**Existing Conditions and Trends** [24 CFR 58.40(a)]:
The Project Site is partially developed with nine residential units, a network of paved access roads and underground utilities, one auxiliary building housing a water treatment system, two groundwater wells, and a stormwater detention basin (Figure 3). Three of the residential units are manufactured homes, which were added in 2022 and are not visible on the aerial photograph. The Project Site is slightly sloped towards the stormwater detention basin, with a high point of approximately 290 feet above mean sea level (amsl) along the southeastern boundary and a low point of approximately 245 feet amsl along the northern boundary. The stormwater detention basin fills in response to storm events and is isolated from other aquatic features. The nearest aquatic features to the Project site are unnamed drainages 800 feet north and 350 feet south of Project site boundary. Undeveloped areas with heavy timber are located north, south, and west of the Project Site. To the east, is the Tribe’s wastewater treatment plant and paved roadways connecting to U.S. Highway 101.
Funding Information

<table>
<thead>
<tr>
<th>Grant Number</th>
<th>HUD Program</th>
<th>Funding Amount</th>
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<tbody>
<tr>
<td>22-IC-WA-14270</td>
<td>IHBG</td>
<td>$1,869,075.00</td>
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Estimated Total HUD Funded Amount:
$1,869,075.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]:
$2,492,100.00

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6

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<tr>
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<th>Are formal compliance steps or mitigation required?</th>
<th>Compliance determinations</th>
</tr>
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<tbody>
<tr>
<td>Airport Hazards</td>
<td>Yes     No</td>
<td>The Project site is not close to a military airport or a civilian airport. The closest airport is Sanderson Field (SHN) which is approximately 7.6 miles away. All other airports are over 15 miles away. The Project would not result in airport-related safety issues. Source Document: 1</td>
</tr>
<tr>
<td>Coastal Barrier Resources</td>
<td>Yes     No</td>
<td>No designated coastal barrier areas exist on the west coast; therefore, the Project is not located in a coastal barrier area and would not conflict with the Coastal Barrier Resources Act. Source Document: 2</td>
</tr>
<tr>
<td>Flood Insurance</td>
<td>Yes     No</td>
<td>The Project site is not within a 100-year floodplain. The Project site is located in Zone X as indicated on FEMA Map Panel Number 53045C0435E, effective June 20, 2019. Zone X is defined as an area of minimal hazard, outside of the 100-year floodplain. Thus, the Project would not conflict with the Flood Disaster Protection Act or the National Flood Insurance Reform Act.</td>
</tr>
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<td>Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6</td>
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<tr>
<td><strong>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 &amp; 58.5</strong></td>
<td></td>
<td>Source Document: 3</td>
</tr>
<tr>
<td><strong>Clean Air</strong></td>
<td>Yes No</td>
<td>The Project is located within Mason County, which is in attainment status for all criteria pollutants. Thus, the Project is in compliance with the Clean Air Act. Source Document: 4</td>
</tr>
<tr>
<td>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</td>
<td></td>
<td></td>
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<tr>
<td><strong>Coastal Zone Management</strong></td>
<td>Yes No</td>
<td>The Coastal Zone Management Act applies to portions of Mason County, but tribal trust lands are excluded from the State coastal zone. The Project does not include activities that would affect the coastal zone. Project construction is limited to the Project site and all stormwater would be collected and detained onsite. For these reasons, the Project would be consistent with the Coastal Zone Management Act. Source Document: 5</td>
</tr>
<tr>
<td>Coastal Zone Management Act, sections 307(c) &amp; (d)</td>
<td></td>
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<tr>
<td><strong>Contamination and Toxic Substances</strong></td>
<td>Yes No</td>
<td>A Phase I Environmental Site Assessment was completed for a slightly larger area which fully includes the Project site. The Project site and vicinity do not have recognized environmental hazards or hazardous conditions, which would affect the use of the Project site for residential development. Source Document: 9 and Attachment 2</td>
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<tr>
<td>24 CFR Part 50.3(i) &amp; 58.5(i)(2)</td>
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<tr>
<td><strong>Endangered Species</strong></td>
<td>Yes No</td>
<td>Federally Listed Species</td>
</tr>
<tr>
<td>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</td>
<td></td>
<td>The U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) tool identified six federally-listed species that should be considered for their potential to occur in the Project area (see attachment). These species are Marbled Murrelet (threatened), Yellow-billed Cuckoo (threatened), Bull Trout (threatened), Dolly Varden (proposed threatened), Monarch Butterfly (candidate), and Taylor’s Checkerspot Butterfly (endangered). The Project site consists of graded residential lots, developed roadways and a stormwater detention basin. These disturbed and urbanized habitat types do not provide suitable habitat for</td>
</tr>
</tbody>
</table>
Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6

Are formal compliance steps or mitigation required?

Compliance determinations

determine whether the above-listed species, which require undisturbed grasslands, riparian / riverine habitat, or estuarine / marine habitat. There are no known populations of these listed species within the Project site, so no direct impacts to listed species will occur with project implementation. Furthermore, indirect impacts are unlikely because the Project site is already developed with residences, natural habitats are disturbed and fragmented, and roads are present. Because the Project site’s stormwater is detained in a basin, construction-related ground disturbance will not affect downstream waterbodies. There is the potential that bird species could temporarily use trees for foraging or nesting within the stormwater detention area or in adjacent forested areas, and could be disturbed by construction activities that create noise or vibration. In order to avoid potential impacts to both migratory birds and federally-listed bird species, a pre-construction bird survey would be completed prior to construction within the nesting bird season and avoidance measures implemented as required. Therefore, the Project would result in no effect to the above listed species.

Critical Habitat

Critical habitat for five listed species (Chinook Salmon [Puget Sound ESU], chum Salmon [Hood Canal summer-run ESU], bull trout, yelloweye rockfish [Puget Sound-Georgia Basin DPS]), and Bocaccio [Puget Sound-Georgia Basin DPS]) are located approximately 0.5 miles from the Project site in Annas Bay / Hood Canal. Stormwater from the Project site is currently collected and piped to a stormwater detention basin where it is fully contained and prevented from affecting fish habitat downstream. This stormwater detention basin will be expanded to provide additional capacity and continue to fully contain stormwater from the Project site. The Project does not include in-water work, construction activities will be confined to the Project site and require only minor grading, and
Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6

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<tr>
<td>no downstream impacts will occur. Thus, no adverse effects to fish species and critical habitat would occur.</td>
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**EFH Assessment**

The Project Site does not contain aquatic features and thus cannot sustain fisheries or be defined as essential fish habitat (EFH) under the Magnuson-Stevens Fishery Conservation and Management Act (MSA); however, it is identified as within a watershed which affects EFH for Pink salmon, Chinook salmon, and Coho salmon. EFH for groundfish and coastal pelagic species is located approximately 0.5 miles east of the Project site in Hood Canal.

It has been determined that the Project will not adversely affect EFH for the Pacific coast salmon fishery. This determination is justified based on the following rationale:

- The Project does not include in-water work and requires only minor ground disturbance and no significant grading.
- All work will be limited to the Project site, which does not contain fisheries habitat or any channels.
- Stormwater from the Project site is currently, and will continue to be, collected, and treated onsite with no effects to downstream waterways.

**No Effect Determination**

The Tribe determined that the Project would result in No Effect to federally-listed species or critical habitat protected under the Endangered Species Act, and will result in No Effect to EFH under the MSA. Letters documenting the No Effect Determination were sent to USFWS and National Marine Fisheries Service (NMFS) on April 4, 2023. USFWS responded via e-mail on April 6, 2023, that no consultation was required. No response was received from NMFS. To ensure avoidance a pre-construction nesting bird survey is included as Mitigation Measure 1.
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<tr>
<td><strong>Explosive and Flammable Hazards</strong>&lt;br&gt;24 CFR Part 51 Subpart C</td>
<td>Yes No</td>
<td>No aboveground storage tanks of concern were identified on the Project site, in the immediate vicinity, or within regulatory database searches. No explosive or flammable hazards have been identified that would affect the Project. Source Document: Attachment 2</td>
</tr>
<tr>
<td><strong>Farmlands Protection</strong>&lt;br&gt;Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</td>
<td>Yes No</td>
<td>Based on historic aerial review the site has not been used for agriculture nor is it zoned for agricultural purposes. The Project would not result in the conversion of agricultural land. Thus, the Project is in compliance with the Farmland Protection Policy Act. Source Document: 10</td>
</tr>
<tr>
<td><strong>Floodplain Management</strong>&lt;br&gt;Executive Order 11988, particularly section 2(a); 24 CFR Part 55</td>
<td>Yes No</td>
<td>This Project is located in Zone X, an area of minimal flood hazard as indicated on map panel number 53045C0435E, effective June 20, 2019. The Project is located outside of the 100-year floodplain and would not conflict with provisions related to floodplain management. Source Document: 3</td>
</tr>
<tr>
<td><strong>Historic Preservation</strong>&lt;br&gt;National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</td>
<td>Yes No</td>
<td>Projects on Tribal lands are subject to review by the Tribal Historic Preservation Officer (THPO). The THPO for the Tribe, Kris Miller, was consulted on the methodology for the cultural resources’ investigation. A records search, pedestrian survey, and shovel test pits were conducted. A Cultural Resources Technical Memorandum was prepared, summarizes the results of the investigation, and recommended a finding of No Effect to Historic Properties. The Tribe’s THPO reviewed the memorandum and concurred with a finding of No Effect to Historic Properties. Source Document: 11, Attachment 4</td>
</tr>
<tr>
<td><strong>Noise Abatement and Control</strong>&lt;br&gt;Noise Control Act of 1972, as amended by the Quiet</td>
<td>Yes No</td>
<td>The ambient noise level at the Project site is typical of rural residential development, and with a day-night average at acceptable levels (less than 65 dB). There are no railroads within 13 miles of...</td>
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<tr>
<td>Communities Act of 1978; 24 CFR Part 51 Subpart B</td>
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<td>the Project site or civilian or military airfields within 5 miles of the Project site. Construction noise could impact existing on-site residences. To reduce impacts, construction would be limited to weekdays between 7AM and 7PM. Source Document: 1</td>
</tr>
<tr>
<td>Sole Source Aquifers</td>
<td>Yes No</td>
<td>The Project is not located near or served by a sole source aquifer and thus would not impact a sole source aquifer. Source Document: 12</td>
</tr>
<tr>
<td>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</td>
<td>Yes No</td>
<td>No potential wetland areas were identified on the Project site. The nearest unnamed drainages are located approximately 800 feet north and 350 feet south of Project site boundary. All stormwater from the Project would be collected and routed to the expanded stormwater detention basin. The stormwater detention basin is isolated and fills only in response to storms. The detention basin is sized to collect and infiltrate stormwater from the development and does not drain to off-site wetlands or other waters of the U.S. Thus, wetlands would not be impacted. Source Document: 13</td>
</tr>
<tr>
<td>Wetlands Protection</td>
<td>Yes No</td>
<td>This Project is not within proximity of a Wild and Scenic River, Study River, or Nationwide Rivers Inventory River. The Project is in compliance with the Wild and Scenic Rivers Act. Source Document: 14</td>
</tr>
<tr>
<td>Wild and Scenic Rivers</td>
<td>Yes No</td>
<td></td>
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<tr>
<td>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</td>
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<tr>
<td>ENVIRONMENTAL JUSTICE</td>
<td></td>
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<tr>
<td>Environmental Justice</td>
<td>Yes No</td>
<td>The Project involves affordable housing for Tribal members, and thus would beneficially impact low-income and minority populations. As discussed throughout this EA, the Project would not result in substantial, adverse environmental effects; therefore, the Project would not result in disproportionately high and</td>
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<tr>
<td>Executive Order 12898</td>
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### Compliance Factors

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<tr>
<td></td>
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<td>adverse effects on low-income or minority populations. Source Document: 15</td>
</tr>
</tbody>
</table>

#### Environmental Assessment Factors

[24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

#### Impact Codes

Use an impact code from the following list to make the determination of impact for each factor.

1. Minor beneficial impact
2. No impact anticipated
3. Minor Adverse Impact – May require mitigation
4. Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

<table>
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<th>Environmental Assessment Factor</th>
<th>Impact Code</th>
<th>Impact Evaluation</th>
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<tbody>
<tr>
<td>LAND DEVELOPMENT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design</td>
<td>2</td>
<td>The Project area is Tribal trust land where land uses are determined by the Tribe. The existing and planned use of the Project site is residential. The proposed single-family homes will be of a similar scale to existing single-family homes on the Project site as shown on the Site Plan. Source Document: Attachment 1</td>
</tr>
<tr>
<td>Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff</td>
<td>3</td>
<td>The Project site is mapped as approximately 50 percent grove gravelly sandy loam, 5 to 15 percent slopes, approximately 47 percent Hoodsport gravelly sand loam, 15 to 30 percent slopes, and approximately 3 percent Hoodsport gravelly sand loam, 5 to 15 percent slopes. Grove series soils consist of deep, somewhat excessively drained soils formed in glacial outwash. Usually located on terraces and terrace escarpments at elevations of near sea level to 500 feet. Hoodsport series soils consist of moderately well drained, moderately deep soils formed in glacial...</td>
</tr>
</tbody>
</table>
till on plains and foothills from sea level to 500 feet. Overall, the Project site soils are well drained. No soil limitations have been encountered during the development of the existing homes and infrastructure and thus the soils onsite are considered to be suitable for development.

The Project is located in the Finch Creek-Frontal Hood Canal Watershed (171100180301). Stormwater runoff from the Project site is collected and piped to an existing stormwater detention basin where it is allowed to infiltrate. As part of the Project, the existing detention basin would be expanded. All stormwater generated on the Project site would be managed on site and thus no off-site or downstream impacts are anticipated.

Construction activities include the routine use of potentially hazardous construction materials, such as concrete washings, oil, and grease that could spill onto the ground and dissolve into stormwater. Erosion from construction sites can also increase sediment discharge to surface waters during storm events, thereby degrading water quality. Mitigation Measure 2 includes best management practices to reduce impacts to water quality to a less-than-significant level.

Source document: 16a, 16b, and 16c.

<table>
<thead>
<tr>
<th>Hazards and Nuisances including Site Safety and Noise</th>
<th>2</th>
<th>All construction is expected to take place during normal weekday daytime hours to avoid disturbance to existing homes. No hazards were identified in the Phase I Environmental Site Assessment that would affect construction activities or residential use of the Project Site.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Consumption</td>
<td>2</td>
<td>The Project is not anticipated to result in energy inefficiencies. The homes would be developed to the standards of the 2018 Washington State Energy Code. Based on the scale of development, the Project would not have a substantial, adverse effect on energy consumption.</td>
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<tr>
<td>SOCIOECONOMIC</td>
<td></td>
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<tr>
<td>Employment and Income Patterns</td>
<td>2</td>
<td>The Project would not adversely impact regional employment and income patterns.</td>
</tr>
<tr>
<td>Demographic Character Changes, Displacement</td>
<td>2</td>
<td>The Project would not result in significant changes to the demographics of the area or displace any existing homes. The Project would provide homes for tribal members on the Tribe’s Reservation.</td>
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<tr>
<td>COMMUNITY FACILITIES AND SERVICES</td>
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<tr>
<td>Educational and Cultural Facilities</td>
<td>2</td>
<td>The Project area has educational and cultural facilities to serve existing and proposed housing. Cultural facilities include, but are not limited to, the Tribe’s Community Center and Skokomish Tribal Museum. The Project site is located within the Hood Canal School District which includes Hood Canal School (K-8). Shelton High School within the Shelton School District serves multiple school districts, including Hood Canal. The Tribe also operates an early education/Head Start program on the Reservation. Residents of the seven new homes may have children who are new to the district but the small number of potential students would not result in the need for new or expanded schools.</td>
</tr>
<tr>
<td>Commercial Facilities</td>
<td>2</td>
<td>Twin Totems Grocery and Deli is located 1.5 miles south of the Project site. Other commercial facilities, including grocery stores are located in Hoodsport (3 miles north), Union (3 miles east) and the City of Shelton (9 miles south). The Project site is served by existing commercial facilities and would not result in the need for new or expanded facilities.</td>
</tr>
<tr>
<td>Health Care and Social Services</td>
<td>2</td>
<td>The closest health care and social services is the Skokomish Wellness Center within 3 miles of the Project site. Mason Health-Health Care Center and Mason General Hospital are located approximately 12 miles from the Project site. The Project site is served by existing health care facilities and social services and would not result in the need for new or expanded facilities.</td>
</tr>
<tr>
<td>Solid Waste Disposal/Recycling</td>
<td>2</td>
<td>There are four drop off waste disposal facilities in the Project vicinity: the Eells Hill Transfer Station, Belfair Drop Box, Union Drop Box, and Hoodsport Drop Box. The small number of proposed homes is not anticipated to result in the need for new or expanded solid waste or recycling facilities.</td>
</tr>
<tr>
<td>Wastewater/ Sanitary Sewers</td>
<td>2</td>
<td>The existing residential development is served by a Tribal wastewater treatment plant. The proposed homes would be connected to the existing on-site sewer system and thus there would be no impacts to public wastewater providers.</td>
</tr>
<tr>
<td>Water Supply</td>
<td>2</td>
<td>The existing residential development is served by groundwater wells on the Reservation. The proposed homes would be connected to the existing on-site water system and thus there would be no impacts to public water supply providers.</td>
</tr>
<tr>
<td>Public Safety- Police, Fire and Emergency Medical</td>
<td>2</td>
<td>The Skokomish Police Department provides law enforcement services on the Reservation. Mason County Fire District provides fire and EMS services to the Skokomish Reservation, which includes the Project site. The small number of proposed homes is not anticipated to result in the need for new or expanded police, fire, or emergency medical services.</td>
</tr>
<tr>
<td>Parks, Open Space and Recreation</td>
<td>2</td>
<td>The Project area is served by several community parks. Tuwaduq Park is approximately 1.5 miles south and Potlatch State Park is located approximately 0.4 miles east of the Project site. The Tribe’s Community Center offers recreational opportunities.</td>
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### Environmental Assessment Factor and Impact Code

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<td>Schools in the area also provide recreation opportunities with after school events and sports programs. The small number of proposed homes is not anticipated to result in the need for new or expanded recreation facilities.</td>
</tr>
<tr>
<td><strong>Transportation and Accessibility</strong></td>
<td>2</td>
<td>Major roadways are easily accessible from the Project site. Public transportation via bus and ferry are options, and they access Potlatch State Park. The small number of proposed homes is not anticipated to result in a significant increase in traffic on local roadways.</td>
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### NATURAL FEATURES

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<tr>
<td><strong>Unique Natural Features, Water Resources</strong></td>
<td>2</td>
<td>The Project is located in an existing Tribal residential development. There are no unique or natural features present within the Project site. Undeveloped, forested areas are located north, south and west of the Project site; however, these areas would not be impacted.</td>
</tr>
<tr>
<td><strong>Vegetation, Wildlife</strong></td>
<td>2</td>
<td>Vegetation and wildlife will not be impacted as the proposed housing lots were previously graded and do not provide suitable habitat for wildlife. Project construction activities would be limited to the Project site and would not extend into the forested areas surrounding the site. <strong>Mitigation Measure 1</strong> is included to prevent impacts to nesting bird species.</td>
</tr>
<tr>
<td><strong>Other Factors</strong></td>
<td>NA</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Additional Studies Performed:

### Field Inspection (Date and completed by):
November 2022, David Sawyer, Environmental Analyst
January 2023, Charlane Gross M.A., RPA

### List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:
Source Documents:
17. Garnett, Jeffrey (USFWS), personal communication (email) on April 6, 2023.

Attachments:
Attachment 1 – Site Plan
Attachment 2 – Skokomish Indian Tribe, t3ba’das Property, Phase I Environmental Site Assessment dated December 2022.
Attachment 3 – Section 7 ESA No Effect Letter
Attachment 4 – Section 106 National Historic Preservation Act THPO Concurrence Letter

List of Permits Obtained: N/A
Public Outreach [24 CFR 50.23 & 58.43]:
In accordance with HUD regulations, a public notice of the Finding of No Significant Impact and Request for Release of Funds will be published, and a 15-day comment period will begin.

Cumulative Impact Analysis [24 CFR 58.32]:
To the extent possible, this EA considered the combined effect of the Project and other foreseeable actions on the Project site or in the vicinity. Additional Tribal housing and facilities are anticipated to be developed on graded lots within and in proximity to the Project Site. New homes would be added gradually and represent a small number of homes within the region. The development of additional Tribal housing beyond the Project is not anticipated to result in significant cumulative effects.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]
The Project site is located on the Skokomish Indian Tribe Reservation and is the only suitable property, based on cost, ease of development, and proximity to the target service population. As such, no alternative sites were considered.

No Action Alternative [24 CFR 58.40(e)]:
Under the No Action Alternative, the Project would not be constructed, and the purpose and need for affordable Tribal housing would not be realized. The No Action Alternative does not meet the stated purpose and need of the current proposal.

Summary of Findings and Conclusions:
No significant environmental impacts were identified which would warrant preparation of an Environmental Impact Statement.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]
Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

<table>
<thead>
<tr>
<th>Law, Authority, or Factor</th>
<th>Mitigation Measure</th>
</tr>
</thead>
</table>
| Migratory Bird Treaty Act, Endangered Species Act | 1. The following measures are recommended to avoid impacts to potentially nesting birds:  
   A. Construction and vegetation maintenance within the stormwater detention basin shall occur outside the bird nesting season (February 15 to September 15) to the extent feasible.  
   B. If the bird nesting season cannot be avoided, a qualified wildlife biologist shall conduct a pre-construction nesting survey within 7 days prior to the
start of such activities or after any construction breaks of 14 days or more. Surveys shall be performed for the Project site and suitable habitat within 250 feet of the Project site in order to detect any active passerine (perching bird) nests and within 500 feet of the Project site to identify any active raptor (bird of prey) nests.

C. If active nests are identified during the pre-construction bird nesting surveys, the wildlife biologist shall place species- and site-specific no-disturbance buffers around each nest. Buffer size would typically be between 50 and 250 feet for passerines and between 300 and 500 feet for raptors (birds of prey). These distances may be adjusted depending on the level of surrounding ambient activity (i.e., if the Project site is adjacent to a road or community development) and if an obstruction, such as a building structure, is within line-of-sight between the nest and construction. For bird species that are federally- and/or State-listed sensitive species (i.e., fully protected, endangered, threatened, species of special concern), a Project representative, supported by the wildlife biologist, shall consult with the USFWS and/or WDFW regarding modifying nest buffers. The following measures shall be implemented based on their determination:

- If construction would occur outside of the no-disturbance buffer and is not likely to affect the active nest, then construction may proceed. However, the biologist should be consulted to determine if changes in the location or magnitude of construction activities could affect the nest.

- If construction may affect the active nest, the biologist and a Project representative shall consult with USFWS and/or WDFW, dependent on regulatory status, to develop alternative actions such as modifying construction, monitoring of the nest during construction, or removing or relocating active nests.

D. Any birds that begin nesting within the Project site and survey buffers amid construction activities shall be assumed to be habituated to construction-related or similar noise and disturbance levels and minimum work exclusion zones of 25 feet shall be established around active nests in these cases.
2. The following best management practices (BMPS) will be followed during construction to minimize storm water effects to water quality:

- Temporary erosion control measures (such as silt fences, fiber rolls, vegetated swales, a velocity dissipation structure, staked straw bales, temporary re-vegetation, rock bag dams, erosion control blankets, and sediment traps) shall be employed for disturbed areas.
- Construction activities shall be scheduled to minimize land disturbance during peak runoff periods.
- Disturbed areas shall be paved or re-vegetated following construction activities.
- A spill prevention and countermeasure plan shall be developed which identifies proper storage, collection, and disposal measures for potential pollutants (such as fuel, fertilizers, pesticides, etc.) used onsite.
- Petroleum products shall be stored, handled, used, and disposed of properly in accordance with provisions of the Clean Water Act (33 USC §§ 1251 to 1387).
- Construction materials, including topsoil and chemicals, shall be stored, covered, and isolated to prevent runoff losses and contamination of surface and groundwater.
- Fuel and vehicle maintenance areas shall be established away from all drainage courses and designed to control runoff.
- Sanitary facilities shall be provided for construction workers.
- Solid waste storage containers will be enclosed so that runoff cannot come into contact with the waste storage containers.
- Paved surfaces shall be swept to remove any tracked soil.
- Traffic speeds on the Project site shall be restricted to 15 miles per hour to reduce soil disturbance.
- Dirt, gravel, and debris piles shall be covered as needed to reduce dust and wind-blown debris.
Determination:

☒ Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.27]
The project will not result in a significant impact on the quality of the human environment.

☐ Finding of Significant Impact [24 CFR 58.40(g)(2); 40 CFR 1508.27]
The project may significantly affect the quality of the human environment.

Preparer Signature: __________________________________________ Date: 6/26/2023

Name/Title/Organization: Jennifer Wade, Principal, Acorn Environmental

Certifying Officer Signature: ____________________________ Date: 6/26/2023

Name/Title: Thomas Strong, CEO

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).
Phase I Environmental Site Assessment

Skokomish Indian Tribe t3ba’das Property
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T3BA’DAS PROPERTY, MASON COUNTY, WA
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APPENDICES

Appendix A  EDR Radius Map Report
Appendix B  Historical Aerial Photographs
Appendix C  Historical Topographic Maps
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Appendix E  EDR City Directory Abstract
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SECTION 1.0
INTRODUCTION

1.1 PURPOSE

The Skokomish Indian Tribe (Tribe) is requesting funding from the United States Department of Housing and Urban Development (HUD) for use in development of tribal housing on federal trust land. This Phase I Environmental Site Assessment (Phase I ESA) has been prepared in conformance with the HUD guidelines (24 CFR 58.5(i)(2) and 24 CFR 50.3(i)) and the American Society for Testing and Materials (ASTM) Standard Practice E 1527-13, which specifies the appropriate inquiry requirement for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (ASTM, 2013).

On March 14, 2022, the U.S. Environmental Protection Agency (EPA) published a Direct Final Rule that confirmed the new ASTM standard, ASTM E1527-21, could be used to satisfy the EPA’s All Appropriate Inquiry (AAI) regulations. However, on May 2, 2022, EPA withdrew the Final Rule it had published on March 14, 2022. Therefore, this Phase I ESA has been produced in conformance with the ASTM E1527-13 standard, because that is the ASTM standard that is currently referenced in EPA’s AAI regulations.

This Phase I ESA encompasses an approximately 15.7-acre property in Mason County, Washington, referred to as the “t3ba’das Property” or “Subject Property” and described in Section 2.0. The Subject Property is located on the Tribe’s Reservation. The purpose of this assessment is to identify Recognized Environmental Conditions (RECs) which may affect future uses or pose a threat to site occupants of the Subject Property.

The term REC refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products within a property into structures or into the ground, groundwater, or surface water. The term REC is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Additionally, the term Historical Recognized Environmental Conditions (HREC) refers to an environmental condition associated with a property, including a past release of any hazardous substance or petroleum product that has since been remediated, which in the past would have been considered a REC; and the term Controlled Recognized Environmental Conditions (CREC) refers to hazardous substance releases that have been partially addressed through remediation but where some contamination remains in place under certain risk-based restrictions or conditions. HRECs and CRECs are included in this Phase I ESA (ASTM, 2013). The term de minimis condition is defined as “a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not RECs nor CRECs.” In addition, per HUD guidelines, ASTM non-scope sources of contamination are addressed in this Phase I ESA.
1.2 SCOPE OF SERVICES

Acorn Environmental was contracted by the Skokomish Tribe to conduct a Phase I ESA in conformance with HUD guidelines (24 CFR 58.5(i)(2) and 24 CFR 50.3(i)) and ASTM Standard Practice E 1527-13. As scoped, this Phase I ESA includes the approximately 15.7-acre Subject Property and surrounding known sources of contamination, up to a 1.0-mile radius from the Subject Property. The scope of work included:

- Review of previously prepared ESAs,
- Site reconnaissance inspection and a visual reconnaissance of the Subject Property and adjacent properties,
- Review of relevant database listings of hazardous material sites, waste generators, and underground storage tanks (UST),
- Review of historical topographic maps and aerial photographs of the Subject Property,
- Interviews with owners, operators, occupants, and/or local government officials.

Physical testing of soil or groundwater is not within the scope of this Phase I ESA. Neither testing for asbestos-containing building materials nor lead-based paint surveys are included as part of this assessment.

1.3 LIMITATIONS AND EXCEPTIONS

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property, nor can it eliminate future hazards. Conformance of this Phase I ESA with ASTM Standard Practice E 1527-13 will reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property. While every effort has been made to discover and interpret available historic and current information regarding the Subject Property within the time available, the possibility of undiscovered contamination remains. This Phase I ESA is a best-effort collection and interpretation of available information prepared consistent with the industry standards for completion of a Phase I ESA.

1.4 METHODOLOGY

A variety of data sources were consulted in completing this Phase I ESA pursuant to EPA AAI standards. The following subsections describe the methods used and the data sources consulted to accomplish each task.

1.4.1 HISTORICAL REVIEW

Historical review of the Subject Property was researched in an effort to identify RECs within and in the vicinity of the Subject Property. Historical aerial photographs (Appendix B) and historical topographic maps (Appendix C) were examined for the presence of aboveground storage tanks (ASTs), industrial buildings, gas station canopies and/or pump islands, and other indications of bulk hazardous material storage within the Subject Property. Sanborn Fire Insurance Maps document historical uses of a property
through abbreviations and map symbols that identify commercial, residential, industrial, and other land uses. The Subject Property is unmapped through the Sanborn Library and certification that the Subject Property is unmapped is provided in Appendix D. A City Directory was consulted to ascertain previous land uses within and in the vicinity of the Subject Property (Appendix E).

1.4.2 REGULATORY AGENCY DATABASE SEARCHES

Regulatory agency database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or release. Available records from federal, state, and local agency lists consist of the following: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) sites which manufacture, generate, use, store, and/or dispose of hazardous materials or hazardous wastes; (d) sites which have USTs and/or ASTs; and (e) sites with recorded violations of regulations concerning USTs and hazardous materials/hazardous wastes. The purpose of regulatory agency database searches is to identify facilities that may have the potential to affect surface and subsurface conditions within the Subject Property. A listing of potential sites within and in the vicinity of the Subject Property is provided in Appendix A.

1.4.3 SITE RECONNAISSANCE

David Sawyer of Acorn Environmental conducted a site reconnaissance inspection of the Subject Property and a visual reconnaissance of adjacent properties on November 15, 2022. The purpose of a site reconnaissance inspection is to examine the Subject Property for obvious physical indications of improper hazardous substance or evidence of petrochemical disposal, such as stained soil, stressed vegetation, sumps, partially buried drums, bulk underground and aboveground fuel storage tanks, and other obvious signs of hazardous materials involvement. Adjacent properties were visually inspected to the extent possible without trespassing on private property to determine if current land uses would affect the planned uses of Subject Property.

1.4.4 QUESTIONNAIRES

A questionnaire was issued and completed by a representative of the Skokomish Tribe, owners of the Subject Property held in federal trust. The Skokomish Tribe is also the governmental entity with jurisdictional authority over the land, and an adjacent landowner.

1.5 DEVIATIONS AND DATA GAPS

ASTM Standard Practice E 1527-13 requires any significant data gaps, deviations, and deletions from the ASTM Standard to be identified and addressed in a Phase I ESA. A significant data gap would be one that affected the ability to identify a REC within the Subject Property or adjacent properties.

Due to the rural location of the Subject Property, Sanborn Fire Insurance Maps were not available for the Subject Property. However, historical aerial photographs (Appendix A) and historical topographic maps (Appendix B) were available for review of previous uses of the Subject Property. Thus, the lack of Sanborn Fire Insurance Maps is not considered a significant data gap for this Phase I ESA.
1.6 CREDENTIALS

David Sawyer prepared this report under the professional supervision of Ryan Sawyer AICP., who qualifies as an environmental professional (EP) as defined in ASTM Standard E 1527-13. Resumes for Ryan Sawyer and David Sawyer are included as Appendix F.
SECTION 2.0
SITE DESCRIPTION

2.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located on the Skokomish Indian Tribe Reservation in Mason County, Washington, as shown in Figure 1 and Figure 2. An aerial photograph of the Subject Property is shown as Figure 3. The Subject Property is located in a portion of two parcels totaling approximately 85.72 acres as shown in Table 1. The total acreage under study in this Phase I ESA is approximately 12.3 acres located in the southern portion of APN 422274060000 and the western portion of APN 422263060000.

<p>| TABLE 1 |
| SUBJET PROPERTY APNS |</p>
<table>
<thead>
<tr>
<th>MASON COUNTY APN</th>
<th>APPROXIMATE ACREAGE (±)</th>
</tr>
</thead>
<tbody>
<tr>
<td>422274060000</td>
<td>40.0</td>
</tr>
<tr>
<td>422263060000</td>
<td>35.72</td>
</tr>
<tr>
<td>Source: Mason County, 2022</td>
<td></td>
</tr>
</tbody>
</table>

2.2 SITE AND VICINITY CHARACTERISTICS

The Subject Property is partially developed with 9 residential units, a network of paved access roads and underground utilities, one auxiliary building housing a water treatment system, two groundwater wells, and a stormwater retention basin. The Subject Property is slightly sloped, with a high point of approximately 290 feet above mean sea level (amsl) along the southeastern boundary and a low point of approximately 245 feet amsl along the northern boundary along Stevens Road.

Regional access to the Subject Property is provided by U.S. Highway 101 (US-101), which is located east of the Subject Property and runs in a north-south direction. Local and direct access to the Subject Property is provided by Stevens Road, which is located immediately north of the Subject Property and runs in an east-west direction (Figure 1). North Herring Road provides internal access to the residential units within the Subject Property.

The current adjoining property uses are:

North:   Stevens Road and undeveloped heavy timber.
South:   Undeveloped heavy timber.
FIGURE 1
REGIONAL LOCATION

Legend

- Project Site

Source: ESRI World Topographic Map
FIGURE 3
AERIAL PHOTOGRAPH
Legend
Project Site
0 250 500 Feet
Source: ESRI World Imagery
East: Undeveloped heavy timber

West: Undeveloped land and the Skokomish Water Treatment Plant

2.3 ENVIRONMENTAL RECORDS SOURCES

This section summarizes sources of environmental records in which the Subject Property is located. These sufficiently useful, accurate, and complete sources of environmental records pertaining to the Subject Property was reasonably ascertainable and were obtained pursuant to good commercial and customary practices.

2.3.1 FEDERAL, STATE, AND LOCAL ENVIRONMENTAL AGENCIES

The Environmental Database Research, Inc. (EDR) radius map report (Appendix A), the Skokomish Natural Resources Department, State of Washington Department of Ecology (Ecology), the Washington Department of Natural Resources (DNR) Geologic Portal database, and the United States Environmental Protection Agency (USEPA) Enforcement and Compliance History Online (ECHO) database provided search and documentation of local hazardous materials data.

2.3.2 PLANNING DEPARTMENTS

The Subject Property is held in federal trust for the Skokomish Indian Tribe and is partially developed with Tribal housing units. Zoning designations of the Subject Property were reviewed through information provided by the County of Mason (County). The entire Subject Property is zoned Rural Residential by Mason County (Mason County, 2022); however, County zoning regulations are not applicable to Tribal trust land.

2.3.3 UTILITY DISTRICTS

Mason County Public Utility District (PUD) provides electricity within and in the vicinity of the Subject Property (PUD, 2022). Water and wastewater services are provided by the Tribe via the onsite groundwater system and connection to the Skokomish MBR Wastewater Treatment Plant. All service lines in and around the Subject Property have been buried and are below ground surface.

2.4 HYDROLOGY

The Subject Property is served by two groundwater wells. Constructed in 2007, the eastern well is 256 feet deep with recorded static water at 182.5 feet below the top of the well (Ecology, 2007). Groundwater levels are also often subject to seasonal variation and may rise during extended periods of increased precipitation. Perched groundwater may also be present in localized areas.

Surface waters within the paved and graded portions of the Subject Property drain north towards an on-site stormwater retention basin in the northern portion of the Subject Property.
2.5 GEOLOGY AND SOILS

The rock stratigraphic unit of the Subject Property is Vashon ice-contact deposits from the Pleistocene epoch (DNR, 2022). The Hoodsport and Grove series consist of moderately well drained, moderately deep soils formed in glacial till on plains and foothills from sea level to 500 feet (Appendix A).

2.6 CURRENT USES OF THE SUBJECT PROPERTY

The Subject Property is partially developed with 9 housing units for Skokomish Tribal members and associated infrastructure including roadways, underground utilities, and a stormwater retention basin. A water treatment facility is located in a structure in the northwestern corner of the Subject Property. Site photographs depicting the Subject Property during the site visit are shown in Figures 4 and 5 of Section 3.0 below.

2.7 HISTORIC USES OF THE SUBJECT PROPERTY

Prior to development of the housing units and existing infrastructure, the Subject Property was heavily timbered with no known use or habitation (Kellogg, 2022). Infrastructure on the federal trust property was developed after 2006, with the construction of the water treatment building and grading for the residential lots between 2006 and 2009. In 2015, the Tribe built four stick frame homes. An additional stick frame home was developed by 2018. Three manufactured homes were built in 2022.

2.7.1 AERIAL PHOTOGRAPHS

Aerial photographs (Appendix B) were reviewed for information regarding historic and current uses within and in the vicinity of the Subject Property. The following aerial photographs were available for review at a scale of 1” = 500’: 1951, 1968, 1979, 1980, 1990, 1994, 2006, 2009, 2013, and 2017. Aerial photographs were of varying clarity. From the first available aerial in 1951, the Subject Property and surrounding land uses appear to be heavy timber. Partial clearing of the Subject Property is noted on the 1994 aerial. The internal infrastructure (roadways and western well house) is noted on the 2009 and 2013 aerials. Development of 4 residential units is noted on the 2017 aerial.

2.7.2 TOPOGRAPHIC MAPS

United States Geological Survey (USGS) topographic maps (Appendix C) were reviewed for information regarding historic and current uses within and in the vicinity of the Subject Property. The 1943 and 1952 Potlatch, 1985, 2014, 2017, and 2020 Hoodsport, as well as the 1986, 2014, 2017, and 2020 Skokomish Valley topographic quadrangles were available for review. Topographic maps were of varying clarity. The 1943 and 1952 topographic maps indicate a rural setting immediately surrounding the Subject Property with minor development along the roadway adjacent to the Hood Canal. Potlatch State Park is identified to the east of the Subject Property on the 1985 and 1986 topographic maps. The 2017 and 2020 topographic maps show the Subject Property as disturbed rather than vegetated, as noted in previous maps. On no topographic maps are any structures identified on the Subject Property.
2.8 SANBORN FIRE INSURANCE MAPS

The Subject Property is unmapped through the Sanborn Library (Appendix D).

2.9 PREVIOUS ENVIRONMENTAL STUDIES

The Skokomish Indian Tribe prepared an Environmental Assessment (EA) associated with HUD funding for the Waterman Tribal Housing Project in May 2005. The Subject Property is located within the area studied under this EA, which included analysis as required under HUD Notice 79-33 and 24 CF 51-C. The existing housing units and infrastructure located on the Subject Property were developed after the certification of EA and Finding of No Significant Impact.

2.10 OTHER PHYSICAL SETTING SOURCES

2.10.1 NATIONAL WETLANDS INVENTORY MAP

No wetland features have been classified by the United States Fish and Wildlife (USFWS) National Wetlands Inventory (NWI) within the Subject Property (USFWS, 2022).

2.10.2 FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP

The Subject Property is located within Flood Zone X, which is identified by the Federal Emergency Management Agency (FEMA) as an area determined to be outside the 0.2 percent annual chance of flooding. A copy of the FEMA Flood Insurance Rate Map (FIRMette) is included in Appendix G.
SECTION 3.0
SITE RECONNAISSANCE AND INTERVIEWS

3.1 OBJECTIVE

The objective of the site reconnaissance is to identify the occurrence of potential current or historic hazardous materials involvement within or in the vicinity of the Subject Property. Hazardous materials involvement or signature environmental conditions include the presence or likely presence of any hazardous materials or petroleum products that indicate an existing release, past release, or a threat of release into any structure on the property, soil, or groundwater. Signs of possible hazardous materials involvement would include any indications of USTs existing on the Subject Property; stained soils and/or unusual odors originating from the Subject Property; indications of any excavation or removal of soils, including patched asphalt and large debris piles; and other obvious signs of hazardous materials involvement.

3.2 SITE OBSERVATIONS

David Sawyer of Acorn Environmental conducted a site reconnaissance inspection of the Subject Property and a visual reconnaissance of adjacent properties on November 15, 2022. Adjacent properties were visually observed to the extent possible without trespassing. Figures 4 and 5 provide photographs that show the site conditions at the time of the site visit. Notable features and environmental conditions are summarized below and located on Figure 6:

- The Subject Property is partially developed with 9 housing units with a network of paved roads (Photo 1 and Photo 2).
- Two water wells and one auxiliary water treatment building are located on the Subject Property (Photo 3 and Photo 4).
- A large towable generator is located adjacent to the water treatment building (Photo 5). The towable generator, located within a fenced area adjacent to the water treatment building did not show signs of leaking. Further the towable generator is located on a paved concrete slab.
- All utilities have been buried underground during previous development activities (Photo 6 and Photo 7).
- There is a stormwater retention basin located in the northern portion of the Subject Property between the development pads and Stevens Road (Photo 8).
- No indications of hazardous materials releases were observed within the Subject Property.

Site observations are summarized in Table 2.
### Figure 4 – Site Photographs

<table>
<thead>
<tr>
<th>Photograph</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Residential units facing east" /></td>
<td>1. Photograph shows the residential units within the Subject Property, facing east. North Herring Road is shown.</td>
</tr>
<tr>
<td><img src="image2" alt="Residential units facing west" /></td>
<td>2. Photograph shows the residential units and undeveloped parcels within the Subject Property, facing west.</td>
</tr>
<tr>
<td><img src="image3" alt="Water treatment building" /></td>
<td>3. Photograph shows the water treatment building in the northwest corner of the Subject Property.</td>
</tr>
<tr>
<td><img src="image4" alt="Groundwater well" /></td>
<td>4. Photograph shows groundwater well in the northwest corner of the Subject Property.</td>
</tr>
<tr>
<td>Figure 5 – Site Photographs</td>
<td></td>
</tr>
<tr>
<td>----------------------------</td>
<td></td>
</tr>
<tr>
<td>5. Photograph shows towable generator adjacent to the water treatment structure in the northwestern corner of the Subject Property.</td>
<td></td>
</tr>
<tr>
<td>6. Photograph shows evidence of buried utilities.</td>
<td></td>
</tr>
<tr>
<td>7. Photograph shows utility mains in the northwest corner of the Subject Property, located in the vicinity of the North Herring Road and Stevens Road intersection.</td>
<td></td>
</tr>
<tr>
<td>8. Photograph shows vegetated stormwater detention basin in the northern portion of the Subject Property.</td>
<td></td>
</tr>
</tbody>
</table>
FIGURE 6
Site Findings

Legend

- Project Site

Source: ESRI World Imagery
**TABLE 2**
**SITE OBSERVATIONS**

<table>
<thead>
<tr>
<th>Site Settings</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Uses of Property</td>
<td>Tribal Residential Housing</td>
</tr>
<tr>
<td>Past Uses of Property</td>
<td>Undeveloped Timber land</td>
</tr>
<tr>
<td>Current Uses of Adjacent Property</td>
<td>North: Undeveloped Timber</td>
</tr>
<tr>
<td></td>
<td>South: Undeveloped Timber</td>
</tr>
<tr>
<td></td>
<td>East: Skokomish MBR Treatment Plant</td>
</tr>
<tr>
<td></td>
<td>West: Undeveloped Timber</td>
</tr>
<tr>
<td>Current or Past Uses in the Surrounding Area</td>
<td>Timberland, Potlatch State Park, Rural Residential Development</td>
</tr>
<tr>
<td>Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions</td>
<td>Topography consists of sloping hills toward Hood Canal to the east</td>
</tr>
<tr>
<td>General Description of Structures</td>
<td>Residential Units and Water Treatment Structure</td>
</tr>
<tr>
<td>Roads</td>
<td>Stevens Road to the North with N Herring Road within Subject Property</td>
</tr>
<tr>
<td>Potable Water Supply</td>
<td>Two onsite wells. One well providing connection to onsite water treatment structure.</td>
</tr>
<tr>
<td>Sewage Disposal System</td>
<td>Residential units connected to off-site Skokomish MBR Water Treatment facility to the east of the Subject Property.</td>
</tr>
<tr>
<td>Waste Removal Services</td>
<td>Solid waste removal provided by Tribe</td>
</tr>
<tr>
<td>Possible Hazardous Substances and Petroleum Products in Connection with Identified Uses</td>
<td>Internal fuel tank on towable generator located within fenced area of water treatment structure. No stains or odors observed.</td>
</tr>
<tr>
<td>Storage Tanks and Associated Piping</td>
<td>No storage tanks were observed</td>
</tr>
<tr>
<td>Odors</td>
<td>No strong, pungent, or noxious odors were observed.</td>
</tr>
<tr>
<td>Pools of Liquid</td>
<td>No pools or liquid were observed.</td>
</tr>
<tr>
<td>Drums (5 gal to 55 gal containers should be described)</td>
<td>No drums were observed.</td>
</tr>
<tr>
<td>Potential Hazardous Substances and Petroleum Products Containers</td>
<td>No containers were observed</td>
</tr>
<tr>
<td>Unidentified Substance Containers</td>
<td>No containers were observed.</td>
</tr>
<tr>
<td>Polychlorinated Biphenyls (PCB)</td>
<td>Two pad transformers were observed on the Subject Property. No stained soils or odors were observed in connection with these.</td>
</tr>
<tr>
<td>Pits, Ponds, or Lagoons</td>
<td>No pits or lagoons were observed. A stormwater detention basin, developed in 2005, is located along the northern portion of the Subject Property adjacent to Stevens Road.</td>
</tr>
<tr>
<td>Stained Soil or Pavement</td>
<td>No stained soil or pavement was observed.</td>
</tr>
<tr>
<td>Stressed Vegetation</td>
<td>No stressed vegetation was observed.</td>
</tr>
<tr>
<td>Solid Waste</td>
<td>Minor amounts of residential waste, including tires, wood, and other residential materials were located adjacent to housing units on the Subject Property.</td>
</tr>
<tr>
<td>Waste Water</td>
<td>No wastewater discharge or standing pools were observed.</td>
</tr>
<tr>
<td>Wells</td>
<td>There are two wells on the Subject Property connected to the Tribes Water Supply system. A water treatment structure in located in the northwest corner of the Subject Property.</td>
</tr>
<tr>
<td>Septic System</td>
<td>No septic systems were observed.</td>
</tr>
</tbody>
</table>
3.3 **ADJACENT PROPERTIES**

A survey of adjacent properties was performed to the extent possible without trespassing during the November 15, 2022, site visit. The purpose was to identify land uses of adjacent properties and determine if the current land use of the adjacent properties would affect the current and/or future planned use of the Subject Property. Adjacent land uses are described below.

- North: Heavy Timber to the north of Stevens Road
- South: Heavy Timber
- West: Heavy Timber with pavement of Stevens Road ending approximately 200 yards west of the Subject Property
- East: Partially graded/disturbed land along North Pelican Road. The Skokomish Tribes Potlatch MBR Wastewater Treatment Plant and stands of timber east to U.S Highway 101

3.4 **INTERVIEWS AND QUESTIONNAIRES**

A standard property owner questionnaire/interview was distributed by Acorn to the Skokomish Tribe and responses are included in Appendix H. The Skokomish Tribe is also the governmental entity with jurisdictional authority over the land, and an adjacent landowner.

3.4.1 **OWNER/USER QUESTIONNAIRE AND OWNER PROVIDED INFORMATION**

The Owner/User questionnaire was completed by the Skokomish Indian Tribe’s Public Works Department on December 15, 2022. In response, Brent Kellogg, Project Manager, indicated that prior to development of the Tribal housing units, the property was undeveloped timber land and the Tribe has no specific knowledge of hazardous materials or conditions on the Subject Property. The following information was provided in the response.

3.4.1.1 **REASONS FOR PERFORMING THE PHASE I ESA**

The Phase I ESA was performed by Acorn at the request of the Tribe to support HUD funding for residential development on the Subject Property.

3.4.1.2 **TITLE RECORDS**

No title company or professional was engaged by the client to review recorded land title records and lien records as the Subject Property is held in federal trust by the Tribe.

3.4.1.3 **COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION, AND ACTUAL KNOWLEDGE OF THE USER**

The questionnaire asks if the owner is aware of “commonly known or reasonably ascertainable information about the Subject Property that would help the environmental professional to identify conditions indicative of releases or threatened releases of hazardous materials.” Mr. Kellogg checked the “no” box, however,
elsewhere in the questionnaire Mr. Kellogg clearly indicated commonly known and reasonably ascertainable information and actual knowledge of the Subject Property.

3.4.1.4 Environmental Liens, Activity and Use Limitation, and Valuation Reductions

On the Owner/User Questionnaire, Mr. Kellogg indicated that he was not aware of any environmental liens. The Subject Property is held in federal trust for the Tribe and documentation of valuation reductions has not been provided.

3.4.1.5 Degree of Obviousness

Mr. Kellogg confirmed that, based on his knowledge and experience related to the property, there are no obvious indicators that point to the presence or likely presence of hazardous materials products or petroleum product releases at the Subject Property.

3.4.1.1 Specialized Knowledge

On the Owner/User Questionnaire, Mr. Kellogg indicated that neighboring properties are either owned by the Tribe, Tribal members, and a private timber company.

3.5 Non-scope Sources of Contamination

3.5.1 Asbestos-Containing Materials

Asbestos is a mineral fiber that has been used commonly in a variety of building construction materials for insulation and as a fire-retardant. Because of its fiber strength and heat resistant properties, asbestos was used in roofing shingles, ceiling and floor tiles, insulation products, asbestos cement products, and a host of other building materials. ACM is often classified as either friable or non-friable. Friable ACM, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Non-friable ACM can be crumbled, pulverized, or reduced to powder during machining, cutting, drilling, or other abrasive procedures. When asbestos-containing materials are damaged or disturbed by repair, remodeling or demolition activities, microscopic fibers become airborne and can be inhaled into the lungs, where they can cause significant health problems. Friable ACM is more likely to release fibers when disturbed or damaged than nonfriable ACM.

Acorn conducted a limited visual screening for the presence of ACM at the Subject Property. Based on the construction of the residential structures between 2005 and 2022 it is unlikely that friable ACM is present on the Subject Property.

3.5.2 Lead-Based Paint

Lead was added to paint as a pigment, to speed drying, increase durability or to resist moisture. Although lead improves paint, it was found to pose a health hazard, particularly to children under the age of six, whose bodies are still developing. A paint is considered lead-based paint (LBP if it contains lead equal to or exceeding 1.0 milligram per square centimeter or 0.5 percent by weight, or 5,000 parts per million (ppm)
by weight. A preliminary evaluation for the presence of LBP was conducted. The evaluation was based on the age of the improvements, the extent of renovations, and current and past property usage. The Consumer Product Safety Commission banned the use of lead in paint in 1978, 16 CFR 1303. Most manufacturers, however, had ceased using lead well before this time. Paint applied after 1978 is not considered suspect LBP.

Based on age of the structures on the property, no further action or study with regard to LBP at the Subject Property is recommended at this time.

### 3.5.3 RADON

Radon is a naturally occurring colorless, odorless gas that is a by-product of the decay of radioactive materials potentially present in bedrock and soil. The USEPA guidance action level for annual residential exposure to radon is 4.0 picoCuries per liter of air (pCi/L). The guidance action level is not a regulatory requirement for private owners of commercial real estate, but is commonly used for comparison purposes to suggest whether further action at a building may be prudent.

A preliminary evaluation of the potential for concerns relating to radon was made using the USEPA Map of Radon Zones. The USEPA Map is based solely on averages in order to identify areas in the country with the potential for elevated indoor radon levels. A finding that a property is located in a zone with predicted levels of radon below the USEPA action level does not mean a specific property does not have elevated levels of radon. The evaluation considered the location of the Subject Property, previous test results, if available, type of construction and usage of the Subject Property. The Subject Property is located in Zone 3 (low potential), where counties have a predicted average indoor radon screening level less than the USEPA action level of 4 pCi/L (USEPA, 2022b).

The Subject Property, previously undeveloped timber land, has been developed with residential units since 2005. Based on this information, radon is not considered a potential source of contamination in connection with the Subject Property.

### 3.5.4 MOLD

During the November 15, 2022 site visit, a visual inspection for indications of the presence of active mold growth on readily accessible interior and exterior surfaces of the on-site residential units was undertaken the extent feasible. Confirmation sampling is not included in the scope of work for the Phase I ESA. Readily accessible areas of the buildings were observed for indications of mold, and for areas of water damage. Acorn did not identify the presence of conspicuous mold or observed water intrusion or accumulation during completion of site reconnaissance.

### 3.5.5 VAPOR INTRUSION

In evaluating the potential for a vapor encroachment condition (VEC), Acorn attempted to determine if there was information indicating that chemicals of concern were located within the critical distance, defined as the lineal distance between the nearest edge of a contaminated plume and the nearest Subject Property boundary. Based on ASTM E2600-15 Standard Guide for Vapor Encroachment Screening on Property
Involved in Real Estate Transactions, the critical distance is equal to 100 feet, with the exception of dissolved petroleum hydrocarbons, which have a critical distance of 30 feet. If non-aqueous phase petroleum hydrocarbons are present, the 100 feet distance is utilized.

Based on the information reviewed in this report, there are no issues that would create the potential for vapor intrusion on the Subject Property.
SECTION 4.0
RECORDS REVIEW

4.1 REGULATORY AGENCY DATABASE SEARCHES

The regulatory agency database search was conducted by Environmental Data Resources, Inc. (EDR), a computerized search firm that uses a geographic information system to plot locations of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination up to a 1.0-mile radius from a point roughly equivalent to the center of the Subject Property. Although a site may be listed within a regulatory agency database search, the listed site may not currently be contaminated or affect the environmental quality of the Subject Property and therefore be considered a REC. The regulatory agency database search is only as accurate as the data and date the data entered into the regulatory agency-maintained database was last updated. If not reported to the appropriate regulatory agency, installation of USTs or hazardous materials releases would not be listed on the regulatory agency databases searched. The complete list of reviewed regulatory agency databases is provided in the Map Finding Summary section of the EDR radius map report included as Appendix A.

4.2 HAZARDOUS MATERIALS INVOLVEMENT

The EDR radius map report included in Appendix A was reviewed to determine if the Subject Property and adjacent properties are listed on regulatory agency databases and to determine if the Subject Property and adjacent properties contain RECs that would affect the environmental quality of the Subject Property. Hazardous materials involvement within the Subject Property and adjacent properties is discussed below with positive database listings summarized in Table 3.

4.2.1 SUBJECT PROPERTY

The Subject Property is not listed on any federal, tribal, state, or local databases. In addition, no past or current violations have been reported for these sites (Ecology, 2022; USEPA, 2022).

4.2.2 ADJACENT PROPERTIES

Adjacent properties are listed in any of the databases reviewed through the EDR radius map report included in Appendix A. The EDR report listed 6 database listings in connection with 2 sites within 1.0 mile of the Subject Property. The listing of a site in a database does not necessarily mean that the site is considered a REC as many listings are merely registrations with regulatory agencies.

Of the 2 sites, the Becon Marina site, located 0.2 mile southeast of the Subject Property, appeared on the UST, FINDS, and ALLSITES databases. The Becon site appeared in databases that were related to presence and subsequent removal of two USTs in 1996 on a regulatory database, and not related to a hazardous release. This site does not constitute a REC.
The second site, the Mason Pole Yard, is located down gradient approximately 0.8 miles northeast of the Subject Property. This site is listed under CSCSL, VCP, Brownfield, and ALLSITES databases. The 5,600 sf industrial yard located at 620 N Powerhouse Road was previously used as a utility pole storage yard for untreated and treated pole storage from the 1930’s through 2018. This site is under an ongoing investigation due to the storage of wood treated with Pentachlorophenol (PCP). PCP is an organochlorine compound used as a pesticide and a disinfectant to prolong the life of wood poles. PCP is a toxic substance and cleanup levels are regulated by Ecology and the EPA Resource Conservation and Recovery Act (RCRA). Other types of treated wood with compounds such as chromated copper arsenate and copper naphthenate may have been stored at the Mason Pole Site (Columbia West, 2016). A Phase I ESA was prepared in May 2016 and subsequent Phase II ESA in January 2020 were performed on the Mason Pole Yard property. Soil sampling occurred during the Phase II ESA including analysis for Polycyclic Aromatic Hydrocarbons (PAHs), Semi-Volatile Organic Compounds (SVOCs), arsenic, copper, and chromium. Soil samples contained benzo(a)pyrene and PCP levels above Ecology recommended cleanup standards (Columbia West, 2020).

In 2021 a Cleanup Action Plan (CAP) was prepared through Ecology’s VCP with removal of 498.5 tons of soil from the Mason Pole Yard. Subsequent verification sampling representing in-place soils indicated that contaminated soils were removed (Aspect Consulting, 2021). Due to the distance and downgradient location from the Subject Property, and the past and ongoing remediation activities, the off-site Mason Pole Yard site is not considered a REC affecting the Subject Property.

### TABLE 3

**DATABASE LISTINGS**

<table>
<thead>
<tr>
<th>REGULATORY AGENCY DATABASE*</th>
<th>MINIMUM SEARCH DISTANCE</th>
<th>SUBJECT PROPERTY LISTED</th>
<th>DATABASE LISTINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Site List (HSL)</td>
<td>1.0 mile</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Confirmed and Suspected Contaminated Sites List (CSCSL)</td>
<td>1.0 mile</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>Facility Index System/Facility Registry System (FINDS)</td>
<td>0.001 mile</td>
<td>No</td>
<td>1**</td>
</tr>
<tr>
<td>Water Quality Permit System Data (NPDES)</td>
<td>0.001 mile</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Hazardous Waste Manifest Data (MANIFEST)</td>
<td>0.25 mile</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Underground Injection Wells Listing (UIC)</td>
<td>0.001 mile</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Reported Spills (SPILLS)</td>
<td>0.001 mile</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Underground Storage Tank Database (UST)</td>
<td>0.25 mile</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>Enforcement and Compliance History Information (ECHO)</td>
<td>0.001 mile</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Financial Assurance Information (US FIN ASSUR)</td>
<td>0.001 mile</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Leaking Underground Storage Tank List (LUST)</td>
<td>0.5 mile</td>
<td>No</td>
<td>0</td>
</tr>
<tr>
<td>Voluntary Cleanup Program (VCP)</td>
<td>0.5 mile</td>
<td>No</td>
<td>1**</td>
</tr>
<tr>
<td>Facility/Site Identification System Listing (ALLSITES)</td>
<td>0.5 mile</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

* Sites may be listed on multiple databases and/or on the same database multiple times.

** These sites are located outside the approximate minimum search distance but are included in our research of adjacent properties

**Source:** Lightbox EDR, 2022 (Appendix A).
SECTION 5.0
FINDINGS AND CONCLUSIONS

5.1 FINDINGS

Based on information gathered while conducting this Phase I ESA, the following environmental conditions are provided:

- The Subject Property is partially developed with 9 single family residential units with a network of paved access roads and underground utilities.
- During the site reconnaissance inspection, there was no visible evidence of hazardous materials releases observed within the Subject Property.
- The towable generator, located within a fenced area adjacent to the water treatment building did not show signs of leaking. Further the towable generator is located on a paved concrete slab.
- Surrounding properties listed in the EDR report have been reviewed. Due to the distance and down gradient nature of the location of the off-site listed properties, it was determined these off-site properties do not pose a threat to the environmental integrity of the Subject Property.

5.2 CONCLUSIONS AND RECOMMENDATIONS

This Phase I ESA has been prepared in conformance with the HUD Environmental Standards 24 CFR 58.5(i)(2) and 50.3(i) and the ASTM Standard Practice E 1527-13. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. No significant data gaps were identified that would affect the ability of the environmental professional to identify RECs on the Subject Property. Based on the site conditions during the November 15, 2022 site reconnaissance inspection, owner and client questionnaires (Appendix H), and information in the EDR report (Appendices B, C, D, E, and A), no RECs, CRECs, HRECs, de minimis conditions, or non-scope sources of contamination were identified on the Subject Property that would be likely to pose a significant impact to the environmental integrity of the Subject Property.

These Phase I findings suggest that no further investigation or corrective actions are needed in order to ensure that the Subject Property meets requirements at 58.5(i)(2) or 50.3(i) for the proposed HUD-assisted use.
SECTION 6.0
REPORT AUTHORS AND REFERENCES

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. David Sawyer, Site Assessor, assembled this report under the professional supervision of Ryan Sawyer, AICP (American Institute of Certified Planners), who qualifies as an environmental professional (EP) as defined in the ASTM Standard E1527-13, and have the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property. The signatures of David Sawyer and Ryan Sawyer, AICP appear below and their resumes are included in Appendix F.

REPORT PREPARATION
Acorn Environmental
5170 Golden Foothill Parkway
El Dorado Hills, CA 9562

Site Assessor: [Signature]
David Sawyer

Senior Reviewer: [Signature]
Ryan Sawyer, AICP
REFERENCES


Appendix A

EDR Radius Map Report
The EDR Radius Map™ Report with GeoCheck®
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Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA’s Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

**TARGET PROPERTY INFORMATION**

**ADDRESS**

230 N HERRING ROAD  
SHELTON, WA 98584

**COORDINATES**

Latitude (North): 47.3598920 - 47° 21' 35.61"
Longitude (West): 123.1679030 - 123° 10' 4.45"
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 487320.7
UTM Y (Meters): 5244954.0
Elevation: 276 ft. above sea level

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

Target Property Map: 14719557 SKOKOMISH VALLEY, WA  
Version Date: 2020

North Map: 14732553 HOODSPORT, WA  
Version Date: 2020

**AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 20150817
Source: USDA
<table>
<thead>
<tr>
<th>MAP ID</th>
<th>SITE NAME</th>
<th>ADDRESS</th>
<th>DATABASE ACRONYMS</th>
<th>RELATIVE ELEVATION</th>
<th>DIST (ft. &amp; mi.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reg</td>
<td>SKOKOMISH RESERVATIO</td>
<td></td>
<td>INDIAN RESERV</td>
<td>Same</td>
<td>1 ft.</td>
</tr>
<tr>
<td>1</td>
<td>BECON MARINA</td>
<td>E 5561 HWY 101</td>
<td>UST, ALLSITES, FINDS</td>
<td>Lower</td>
<td>1022, 0.194, ESE</td>
</tr>
<tr>
<td>2</td>
<td>T3BA DAS ALTERNATE A</td>
<td>US 101 &amp; T3BA DAS PA</td>
<td>ALLSITES</td>
<td>Lower</td>
<td>1771, 0.335, ENE</td>
</tr>
<tr>
<td>3</td>
<td>MASON POLE YARD</td>
<td>620 N POWERHOUSE RD</td>
<td>CSCSL, VCP, BROWNFIELDS, ALLSITES</td>
<td>Lower</td>
<td>4228, 0.801, NNE</td>
</tr>
</tbody>
</table>
TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR’s search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites
NPL____________________ National Priority List
Proposed NPL__________ Proposed National Priority List Sites
NPL LIENS______________ Federal Superfund Liens

Lists of Federal Delisted NPL sites
Delisted NPL___________ National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders
FEDERAL FACILITY____ Federal Facility Site Information listing
SEMS______________ Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP
SEMS-ARCHIVE_________ Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action
CORRACTS_____________ Corrective Action Report

Lists of Federal RCRA TSD facilities
RCRA-TSDF__________ RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators
RCRA-LQG_____________ RCRA - Large Quantity Generators
RCRA-SQG_____________ RCRA - Small Quantity Generators
RCRA-VSQG____________ RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries
LUCIS_________________ Land Use Control Information System
EXECUTIVE SUMMARY

US ENG CONTROLS,........... Engineering Controls Sites List
US INST CONTROLS,.......... Institutional Controls Sites List

Federal ERNS list
ERNS,......................... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites
HSL,......................... Hazardous Sites List

Lists of state and tribal landfills and solid waste disposal facilities
SWF/LF,..................... Solid Waste Facility Database

Lists of state and tribal leaking storage tanks
LUST,......................... Leaking Underground Storage Tanks Site List
INDIAN LUST,.............. Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks
FEMA UST,................. Underground Storage Tank Listing
AST,......................... Aboveground Storage Tank Locations
INDIAN UST,.............. Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries
INST CONTROL,............. Institutional Control Site List

Lists of state and tribal voluntary cleanup sites
INDIAN VCP,.............. Voluntary Cleanup Priority Listing
ICR,......................... Independent Cleanup Reports
VCP,......................... Voluntary Cleanup Program Sites
PTAP,......................... PTAP Site Listing

Lists of state and tribal brownfield sites
BROWNFIELDS,............. Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists
US BROWNFIELDS,.......... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites
SWTIRE,..................... Solid Waste Tire Facilities
SWRCY,...................... Recycling Facility List
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
EXECUTIVE SUMMARY

IHS OPEN DUMPS. Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites
- US HIST CDL. Delisted National Clandestine Laboratory Register
- CDL. Clandestine Drug Lab Contaminated Site List
- HIST CDL. List of Sites Contaminated by Clandestine Drug Labs
- CSCSL NFA. Confirmed & Contaminated Sites - No Further Action
- US CDL. National Clandestine Laboratory Register

Local Land Records
- LIENS 2. CERCLA Lien Information

Records of Emergency Release Reports
- HMIRS. Hazardous Materials Information Reporting System
- SPILLS. Reported Spills
- SPILLS 90. SPILLS 90 data from FirstSearch

Other Ascertainable Records
- RCRA NonGen / NLR. RCRA - Non Generators / No Longer Regulated
- 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
- TRIS. Toxic Substances Control Act
- SSTS. Section 7 Tracking Systems
- ROD. Records Of Decision
- RMP. Risk Management Plans
- RAATS. RCRA Administrative Action Tracking System
- PRP. Potentially Responsible Parties
- PADS. PCB Activity Database System
- ICIS. Integrated Compliance Information System
- FTTS. FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
- MLTS. Material Licensing Tracking System
- COAL ASH DOE. Steam-Electric Plant Operation Data
- COAL ASH EPA. Coal Combustion Residues Surface Impoundments List
- PCB TRANSFORMER. PCB Transformer Registration Database
- RADINFO. Radiation Information Database
- HIST FTTS. FIFRA/TSCA Tracking System Administrative Case Listing
- DOT OPS. Incident and Accident Data
- CONSENT. Superfund (CERCLA) Consent Decrees
- FUSRAP. Formerly Utilized Sites Remedial Action Program
- UMTRA. Uranium Mill Tailings Sites
- LEAD SMELTERS. Lead Smelter Sites
- US AIRS. Aerometric Information Retrieval System Facility Subsystem
- US MINES. Mines Master Index File
- ABANDONED MINES. Abandoned Mines
- FINDS. Facility Index System/Facility Registry System
EXECUTIVE SUMMARY

UXOUnexploded Ordnance Sites
DOCKET HWC Hazardous Waste Compliance Docket Listing
ECHOEnforcement & Compliance History Information
FUELS PROGRAMEPA Fuels Program Registered Listing
PFAS NPLEPA PFAS NPL EPA Listing
PFAS FEDERAL SITESSecondary Agency Locations with Known or Suspected PFAS Detections Listing
PFAS TSCAPFAS Production Data
PFAS RCRA MANIFESTPFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDRPFAS Contamination Site Location Listing
PFAS WQP EPAEnvironmental Media Sampling Data
PFAS NPDES PFAS Discharge Monitoring Report Listing
PFAS ECHOFacilities in Industries that May Be Handling PFAS Listing
AQUEOUS FOAM ERNS Aqueous Foam Related Incidents Listing
PFAS Contamination Site Location Listing
PFAS Firefighting Foam Incidents
WASHDC Washington Emissions Data System
ASBESTOS ASBESTOS
COAL ASHCool Ash Disposal Site Listing
DRYCLEANERS Drycleaners
Financial Assurance Financial Assurance Information Listing
Inactive Drycleaners Inactive Drycleaners
MANIFEST Hazardous Waste Manifest Data
NPDES Water Quality Permit System Data
UIC Undergraduate Injection Wells Listing
MINES MRDSSecondary Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records
EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical 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
RGA LUSTR Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.
STANDARD ENVIRONMENTAL RECORDS

Lists of state- and tribal hazardous waste facilities

CSCSL: The State Hazardous Waste Sites records are the states’ equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Ecology’s Confirmed & Suspected Contaminated Sites List.

A review of the CSCSL list, as provided by EDR, and dated 07/11/2022 has revealed that there is 1 CSCSL site within approximately 1 mile of the target property.

<table>
<thead>
<tr>
<th>Lower Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
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<tr>
<td>MASON POLE YARD</td>
<td>620 N POWERHOUSE RD</td>
<td>NNE 1/2 - 1 (0.801 mi.)</td>
<td>3</td>
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<td>Confirmed Above Cleanup Levels</td>
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Lists of state and tribal registered storage tanks

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 Ecology’s Statewide UST Site/Tank Report.

A review of the UST list, as provided by EDR, and dated 08/08/2022 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

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<tbody>
<tr>
<td>BECON MARINA</td>
<td>E 5561 HWY 101</td>
<td>ESE 1/8 - 1/4 (0.194 mi.)</td>
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ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

ALLSITES: Information on facilities and sites of interest to the Department of Ecology.

A review of the ALLSITES list, as provided by EDR, and dated 07/25/2022 has revealed that there are 2
### EXECUTIVE SUMMARY

ALLSITES sites within approximately 0.5 miles of the target property.

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<td><strong>T3BA DAS ALTERNATE A</strong></td>
<td>US 101 &amp; T3BA DAS PA</td>
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### Other Ascertainable Records

**INDIAN RESERV**: This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

A review of the INDIAN RESERV list, as provided by EDR, and dated 12/31/2014 has revealed that there is 1 INDIAN RESERV site within approximately 1 mile of the target property.

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There were no unmapped sites in this report.
### MAP FINDINGS SUMMARY

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### MAP FINDINGS SUMMARY

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<th>1/8 - 1/4</th>
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- Totals --

|       | 0 | 1 | 2 | 1 | 1 | 0 | 5 |

## NOTES:

- TP = Target Property
- NR = Not Requested at this Search Distance
- Sites may be listed in more than one database
IND RES
Region
< 1/8
1 ft.

SKOKOMISH RESERVATION
Name: Skokomish Reservation
Agency: BIA

INDIAN RESERV
Name: BIA

EDR ID Number: CIND200142
EPA ID Number: N/A
Database(s): FINDS

Leaded Gasoline
Compart Number: Not reported
Turbine Sump Construction: Not reported
Pipe Install Date: Not reported
Actual Capacity: False
Is Active: False
Actual Capacity: 1500
Pipe Install Date: Not reported
Turbine Sump Construction: Not reported
Compartment Number: 1
Stored Substance: Leaded Gasoline
BECON MARINA (Continued)

Name: CBM SALES INC/DBA BE-CON MARINA
Address: E 5561 HWY 106/PO BOX 337
City: UNION
Zip: 98592

Tank Name: 2
Tag Number: Not reported
Tank Status: Removed
Tank Status Date: 8/6/1996
Tank Install Date: 12/31/1964
Tank Closure Date: Not reported
Capacity Range: 1,101 to 2,000 Gallons
Tank Permit Expiration Date: Not reported
Tank Upgrade Date: Not reported
Tank Spill Prevention: Not reported
Tank Overfill Prevention: Not reported
Tank Material: Steel
Tank Construction: Not reported
Tank Tightness Test: Not reported
Tank Corrosion Protection: Not reported
Tank Manifold: Not reported
Tank Release Detection: Not reported
Tank SFC Type: Not reported
Pipe Material: Not reported
Pipe Construction: Not reported
Pipe Primary Release Detection: Not reported
Pipe Second Release Detection: Not reported
Pipe Corrosion Protection: Not reported
Pipe Pumping System: Not reported
Responsible Unit: Southwest
Dispenser/Pump SFC Type: Not reported
Region: Southwest
Is Active: False
Actual Capacity: 2000
Pipe Install Date: Not reported
Turbine Sump Construction: Not reported
Compartment Number: 1
Stored Substance: Diesel
Used Substance: Not reported
Compartment Capacity: 2000
URL: https://apps.ecology.wa.gov/cleanupsearch/reports/ust?SiteId=97614

ALLSITES:
Name: BECON MARINA
Facility ID: 46381789

Interaction: 46367
Interaction 1: I
Interaction 2: UST
Ecology Program: TOXICS
Program Data: UST
Facility Alt.: Not reported
Program ID: 97614

https://apps.ecology.wa.gov/cleanupsearch/reports/ust?SiteId=97614
Click here for FRS Facility Detail Report:

Environmental Interest/Information System:
Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington Department of Ecology. This system contains key information for each facility/site that is currently, or has been, of interest to the Air Quality, Dam Safety, Hazardous Waste, Toxics Cleanup, and Water Quality Programs.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

### BECON MARINA (Continued)

- **Date Interaction:** 1999-12-14 00:00:00
- **Date Interaction 3:** Underground Storage Tank
- **Latitude:** 47.356584991200002
- **Longitude:** -123.089619793

### ALLSITES: T3BA DAS ALTERNATE ACCESS

- **Registry ID:** 110015468420

Click here for additional information in the EDR Site Report.

### ALLSITES: MASON POLE YARD

- **Name:** MASON POLE YARD
- **Address:** 620 N POWERHOUSE RD
- **City, State, Zip:** SHELTON, WA 98584
- **Facility ID:** 95581
- **Region:** Southwest
MAISON POLE YARD (Continued)  S126978482

Lat/Long: 47.371885297 / -123.15892454
Clean Up Siteid: 15268
Site Status: Cleanup Started
Contaminant Name: Arsenic
Alternate Site Names: Not reported
Site Rank: Not reported
Has Institutional Control: Not reported
Past VCP: TRUE
Current VCP: TRUE
URL: https://apps.ecology.wa.gov/cleanupsearch/site/15268
Ground Water: Not reported
Surface Water: Not reported
Soil: Below Cleanup Levels
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Southwest

Name: MASON POLE YARD
Address: 620 N POWERHOUSE RD
City,State,Zip: SHELTON, WA 98584
Facility ID: 95581
Region: Southwest
Lat/Long: 47.371885297 / -123.15892454
Clean Up Siteid: 15268
Site Status: Cleanup Started
Contaminant Name: Dioxins/Furans
Alternate Site Names: Not reported
Site Rank: Not reported
Has Institutional Control: Not reported
Past VCP: TRUE
Current VCP: TRUE
URL: https://apps.ecology.wa.gov/cleanupsearch/site/15268
Ground Water: Suspected
Surface Water: Not reported
Soil: Confirmed Above Cleanup Levels
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Southwest

Name: MASON POLE YARD
Address: 620 N POWERHOUSE RD
City,State,Zip: SHELTON, WA 98584
Facility ID: 95581
Region: Southwest
Lat/Long: 47.371885297 / -123.15892454
Clean Up Siteid: 15268
Site Status: Cleanup Started
Contaminant Name: Metals - Other
Alternate Site Names: Not reported
Site Rank: Not reported
Has Institutional Control: Not reported
Past VCP: TRUE
Current VCP: TRUE
URL: https://apps.ecology.wa.gov/cleanupsearch/site/15268
Ground Water: Not reported
<table>
<thead>
<tr>
<th>Site</th>
<th>MASON POLE YARD (Continued)</th>
<th>S126978482</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Water:</td>
<td>Not reported</td>
<td></td>
</tr>
<tr>
<td>Soil:</td>
<td>Below Cleanup Levels</td>
<td></td>
</tr>
<tr>
<td>Sediment:</td>
<td>Not reported</td>
<td></td>
</tr>
<tr>
<td>Air:</td>
<td>Not reported</td>
<td></td>
</tr>
<tr>
<td>Bedrock:</td>
<td>Not reported</td>
<td></td>
</tr>
<tr>
<td>Responsible Unit:</td>
<td>Southwest</td>
<td></td>
</tr>
</tbody>
</table>

Name: MASON POLE YARD
Address: 620 N POWERHOUSE RD
City,State,Zip: SHELTON, WA 98584
Facility ID: 95581
Region: Southwest
Lat/Long: 47.371885297 / -123.15892454
Clean Up Siteid: 15268
Site Status: Cleanup Started
Contaminant Name: Other Non-Halogenated Organics
Alternate Site Names: Not reported
Site Rank: Not reported
Has Institutional Control: Not reported
Past VCP: TRUE
Current VCP: TRUE
URL: https://apps.ecology.wa.gov/cleanupsearch/site/15268

Ground Water: Confirmed Above Cleanup Levels
Surface Water: Not reported
Soil: Confirmed Above Cleanup Levels
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Southwest

Name: MASON POLE YARD
Address: 620 N POWERHOUSE RD
City,State,Zip: SHELTON, WA 98584
Facility ID: 95581
Region: Southwest
Lat/Long: 47.371885297 / -123.15892454
Clean Up Siteid: 15268
Site Status: Cleanup Started
Contaminant Name: Polycyclic Aromatic Hydrocarbons
Alternate Site Names: Not reported
Site Rank: Not reported
Has Institutional Control: Not reported
Past VCP: TRUE
Current VCP: TRUE
URL: https://apps.ecology.wa.gov/cleanupsearch/site/15268

Ground Water: Suspected
Surface Water: Not reported
Soil: Confirmed Above Cleanup Levels
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
Responsible Unit: Southwest

Name: MASON POLE YARD
Address: 620 N POWERHOUSE RD
City,State,Zip: SHELTON, WA 98584
MAISON POLE YARD (Continued)  S126978482

Name:  MASON POLE YARD
Address:  620 N POWERHOUSE RD
City,State,Zip:  SHELTON, WA 98584
edr_fstat:  WA
edr_fzip:  98584
edr_fcnty:  MASON
edr_zip:  Not reported
Facility ID:  95581
VCP Status:  Cleanup Started
Past VCP:  TRUE
Current VCP:  TRUE
NFA Type:  SHELTON, WA 98584
Date NFA:  SHELTON, WA 98584
Rank:  SHELTON, WA 98584
Cleanup Siteid:  15268
Contaminant Name:  Dioxins/Furans
Soil:  Confirmed Above Cleanup Levels
URL:  https://apps.ecology.wa.gov/cleanupsearch/site/15268

Below Cleanup Levels
Soil:  Metals - Other
Contaminant Name:  Arsenic
URL:  https://apps.ecology.wa.gov/cleanupsearch/site/15268

Name:  MASON POLE YARD
Address:  620 N POWERHOUSE RD
City,State,Zip:  SHELTON, WA 98584
edr_fstat:  WA
edr_fzip:  98584
edr_fcnty:  MASON
edr_zip:  Not reported
Facility ID:  95581
VCP Status:  Cleanup Started
Past VCP:  TRUE
Current VCP:  TRUE
NFA Type:  SHELTON, WA 98584
Date NFA:  SHELTON, WA 98584
Rank:  SHELTON, WA 98584
Cleanup Siteid:  15268
Contaminant Name:  Metals - Other
Soil:  Below Cleanup Levels
URL:  https://apps.ecology.wa.gov/cleanupsearch/site/15268

Name:  MASON POLE YARD
Address:  620 N POWERHOUSE RD
City,State,Zip:  SHELTON, WA 98584
**MAISON POLE YARD (Continued)**

edr_fstat: WA
edr_fzip: 98584
edr_fcnty: MASON
edr_zip: Not reported
Facility ID: 95581
VCP Status: Cleanup Started
Past VCP: TRUE
Current VCP: TRUE
NFA Type: SHELTON, WA 98584
Date NFA: SHELTON, WA 98584
Rank: SHELTON, WA 98584
Cleanup Siteid: 15268
Contaminant Name: Other Non-Halogenated Organics
Soil: Confirmed Above Cleanup Levels
URL: https://apps.ecology.wa.gov/cleanupsearch/site/15268

**BROWNFIELDS:**

Name: MASON POLE YARD
Address: 620 N POWERHOUSE RD
City,State,Zip: SHELTON, WA 98584
Facility ID: 95581
Rank: Not reported
Cleanup Site Id: 15268
Facility Status: Cleanup Started
ISIS User Display Name: Not reported
Responsible Section: Southwest
Acreage: 0.13
Contaminant Type: Arsenic
Public Funding Amt: $135,500.00
Habitat Restoration: FALSE
Latitude: 47.3718853
Longitude: -123.1589245
Ground Water: Not reported
Surface Water: Not reported
Soil: Confirmed Above Cleanup Levels
Sediment: Not reported
Air: Not reported
Bedrock: Not reported

**EDR ID Number:** S126978482
**MASON POLE YARD (Continued)**

| URL: | https://apps.ecology.wa.gov/cleanupsearch/site/15268 |
| Name: | MASON POLE YARD |
| Address: | 620 N POWERHOUSE RD |
| City,State,Zip: | SHELTON, WA 98584 |
| Facility ID: | 95581 |
| Rank: | Not reported |
| Cleanup Site Id: | 15268 |
| Facility Status: | Cleanup Started |
| ISIS User Display Name: | Not reported |
| Responsible Section: | Southwest |
| Acreage: | 0.13 |
| Contaminant Type: | Dioxins/Furans |
| Public Funding Amt: | $135,500.00 |
| Habitat Restoration: | FALSE |
| Latitude: | 47.3718853 |
| Longitude: | -123.1589245 |
| Ground Water: | Suspected |
| Surface Water: | Not reported |
| Soil: | Confirmed Above Cleanup Levels |
| Sediment: | Not reported |
| Air: | Not reported |
| Bedrock: | Not reported |
| URL: | https://apps.ecology.wa.gov/cleanupsearch/site/15268 |

| URL: | https://apps.ecology.wa.gov/cleanupsearch/site/15268 |
| Name: | MASON POLE YARD |
| Address: | 620 N POWERHOUSE RD |
| City,State,Zip: | SHELTON, WA 98584 |
| Facility ID: | 95581 |
| Rank: | Not reported |
| Cleanup Site Id: | 15268 |
| Facility Status: | Cleanup Started |
| ISIS User Display Name: | Not reported |
| Responsible Section: | Southwest |
| Acreage: | 0.13 |
| Contaminant Type: | Metals - Other |
| Public Funding Amt: | $135,500.00 |
| Habitat Restoration: | FALSE |
| Latitude: | 47.3718853 |
| Longitude: | -123.1589245 |
| Ground Water: | Not reported |
| Surface Water: | Not reported |
| Soil: | Below Cleanup Levels |
| Sediment: | Not reported |
| Air: | Not reported |
| Bedrock: | Not reported |
| URL: | https://apps.ecology.wa.gov/cleanupsearch/site/15268 |
MAISON POLE YARD (Continued)

Acreage: 0.13
Contaminant Type: Other Non-Halogenated Organics
Public Funding Amt: $135,500.00
Habitat Restoration: FALSE
Latitude: 47.3718853
Longitude: -123.1589245
Ground Water: Confirmed Above Cleanup Levels
Surface Water: Not reported
Soil: Confirmed Above Cleanup Levels
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
URL: https://apps.ecology.wa.gov/cleanupsearch/site/15268

Name: MAISON POLE YARD
Address: 620 N POWERHOUSE RD
City, State, Zip: SHELTON, WA 98584
Facility ID: 95581
Rank: Not reported
Cleanup Site Id: 15268
Facility Status: Cleanup Started
ISIS User Display Name: Not reported
Responsible Section: Southwest
Acreage: 0.13
Contaminant Type: Polycyclic Aromatic Hydrocarbons
Public Funding Amt: $135,500.00
Habitat Restoration: FALSE
Latitude: 47.3718853
Longitude: -123.1589245
Ground Water: Suspected
Surface Water: Not reported
Soil: Confirmed Above Cleanup Levels
Sediment: Not reported
Air: Not reported
Bedrock: Not reported
URL: https://apps.ecology.wa.gov/cleanupsearch/site/15268

ALLSITES:
Name: MAISON POLE YARD
Facility Id: 95581
Interaction: 135499
Interaction 1: A
Interaction 2: SCS
Ecology Program: TOXICS
Program Data: ISIS
 Facility Alt.: Mason Pole Yard
Program ID: Not reported
Date Interaction: 2016-05-25 00:00:00
Date Interaction 3: State Cleanup Site
Latitude: 47.3718847803
Longitude: -123.158926506

Interaction: 136030
Interaction 1: A
Interaction 2: VOLCLNST
<table>
<thead>
<tr>
<th>City</th>
<th>EDR ID</th>
<th>Site Name</th>
<th>Site Address</th>
<th>Zip</th>
<th>Database(s)</th>
</tr>
</thead>
</table>

NO SITES FOUND
To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

**Lists of Federal NPL (Superfund) sites**

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA’s Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

- **Date of Government Version:** 07/26/2022
- **Date Data Arrived at EDR:** 08/02/2022
- **Date Made Active in Reports:** 08/22/2022
- **Number of Days to Update:** 20

**NPL Site Boundaries**

Sources:

- EPA’s Environmental Photographic Interpretation Center (EPIC)
  - Telephone: 202-564-7333

<table>
<thead>
<tr>
<th>Region</th>
<th>Telephone</th>
<th>Region</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>617-918-1143</td>
<td>6</td>
<td>214-655-6659</td>
</tr>
<tr>
<td>3</td>
<td>215-814-5418</td>
<td>7</td>
<td>913-551-7247</td>
</tr>
<tr>
<td>4</td>
<td>404-562-8033</td>
<td>8</td>
<td>303-312-6774</td>
</tr>
<tr>
<td>5</td>
<td>312-886-6686</td>
<td>9</td>
<td>415-947-4246</td>
</tr>
<tr>
<td>10</td>
<td>206-553-8665</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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:** 07/26/2022
- **Date Data Arrived at EDR:** 08/02/2022
- **Date Made Active in Reports:** 08/22/2022
- **Number of Days to Update:** 20

**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.
Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA’s Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive
SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA’s knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Lists of Federal RCRA TSD facilities
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.

Lists of Federal RCRA generators
RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.
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: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7
Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7
Source: Environmental Protection Agency
Telephone: (206) 553-1200
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/16/2022
Date Data Arrived at EDR: 08/22/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 63
Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 02/20/2023
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: 08/15/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 68
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/15/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 68
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
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: 06/14/2022
- Date Data Arrived at EDR: 06/15/2022
- Date Made Active in Reports: 06/21/2022
- Number of Days to Update: 6
- Source: National Response Center, United States Coast Guard
- Telephone: 202-267-2180
- Last EDR Contact: 09/20/2022
- Next Scheduled EDR Contact: 01/02/2023
- Data Release Frequency: Quarterly

**Lists of state and tribal (Superfund) equivalent sites**

HSL: Hazardous Sites List

The Hazardous Sites List is a subset of the CSCSL Report. It includes sites which have been assessed and ranked using the Washington Ranking Method (WARM).

- Date of Government Version: 02/23/2022
- Date Data Arrived at EDR: 03/08/2022
- Date Made Active in Reports: 06/01/2022
- Number of Days to Update: 85
- Source: Department of Ecology
- Telephone: 360-407-7200
- Last EDR Contact: 08/25/2022
- Next Scheduled EDR Contact: 12/12/2022
- Data Release Frequency: Semi-Annually

**Lists of state and tribal hazardous waste facilities**

CSCSL: Confirmed and Suspected Contaminated Sites List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

- Date of Government Version: 07/11/2022
- Date Data Arrived at EDR: 07/12/2022
- Date Made Active in Reports: 07/21/2022
- Number of Days to Update: 9
- Source: Department of Ecology
- Telephone: 360-407-7200
- Last EDR Contact: 10/11/2022
- Next Scheduled EDR Contact: 01/23/2023
- Data Release Frequency: Quarterly

**Lists of state and tribal landfills and solid waste disposal facilities**

SWF/LF: Solid Waste Facility Database

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: 07/07/2022
- Date Data Arrived at EDR: 07/21/2022
- Date Made Active in Reports: 10/04/2022
- Number of Days to Update: 75
- Source: Department of Ecology
- Telephone: 360-407-6132
- Last EDR Contact: 08/24/2022
- Next Scheduled EDR Contact: 12/12/2022
- Data Release Frequency: Annually

**Lists of state and tribal leaking storage tanks**

LUST: Leaking Underground Storage Tanks Site List

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: 08/08/2022
- Date Data Arrived at EDR: 08/09/2022
- Date Made Active in Reports: 10/26/2022
- Number of Days to Update: 78
- Source: Department of Ecology
- Telephone: 360-407-7183
- Last EDR Contact: 11/08/2022
- Next Scheduled EDR Contact: 02/20/2023
- Data Release Frequency: Quarterly
INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.
Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.
Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 98
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 01/30/2023
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: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.
Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 01/30/2023
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: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 01/30/2023
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: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/17/2022
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies
Indian LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022  Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022  Telephone: 303-312-6271
Date Made Active in Reports: 08/16/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021  Source: FEMA
Date Data Arrived at EDR: 11/05/2021  Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022  Last EDR Contact: 09/27/2022
Number of Days to Update: 88  Next Scheduled EDR Contact: 01/16/2023
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: 08/08/2022  Source: Department of Ecology
Date Data Arrived at EDR: 08/09/2022  Telephone: 360-407-7183
Date Made Active in Reports: 10/26/2022  Last EDR Contact: 11/08/2022
Number of Days to Update: 78  Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Locations
A listing of aboveground storage tank locations regulated by the Department of Ecology’s Spill Prevention, Preparedness and Response Program.

Date of Government Version: 12/14/2015  Source: Department of Ecology
Date Data Arrived at EDR: 02/02/2016  Telephone: 360-407-7562
Date Made Active in Reports: 05/03/2016  Last EDR Contact: 10/20/2022
Number of Days to Update: 91  Next Scheduled EDR Contact: 02/06/2023
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: 06/02/2022  Source: EPA Region 4
Date Data Arrived at EDR: 06/13/2022  Telephone: 404-562-9424
Date Made Active in Reports: 08/31/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 79  Next Scheduled EDR Contact: 01/30/2023
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: 04/20/2022  Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022  Telephone: 303-312-6137
Date Made Active in Reports: 08/16/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies
INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022  Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022  Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land


Date of Government Version: 04/20/2022  Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022  Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022  Source: EPA, Region 1
Date Data Arrived at EDR: 06/13/2022  Telephone: 617-918-1313
Date Made Active in Reports: 08/16/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022  Source: EPA Region 5
Date Data Arrived at EDR: 06/13/2022  Telephone: 312-886-6136
Date Made Active in Reports: 08/16/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/30/2023
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: 04/28/2022  Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022  Telephone: 214-665-7591
Date Made Active in Reports: 08/16/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022  Source: EPA Region 9
Date Data Arrived at EDR: 06/13/2022  Telephone: 415-972-3368
Date Made Active in Reports: 08/16/2022  Last EDR Contact: 10/17/2022
Number of Days to Update: 64  Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Varies
State and tribal institutional control / engineering control registries

INST CONTROL: Institutional Control Site List
The Environmental Covenants Registry is a list of sites that have implemented institutional controls as part of the remedy. Institutional controls are administrative or legal measures used to prevent activities that may compromise the integrity of a cleanup action. They are meant to prevent exposure to contamination remaining on site. Institutional controls may include environmental covenants (also known as "deed restrictions"), zoning restrictions, public health advisories, or other administrative tools. The most common institutional control is an environmental covenant. Environmental covenants are legal recorded documents that typically limit certain uses of the property, such as: Drilling a water supply well on the property. Disturbing pavement covering contaminated areas. Residential use of the property.

Date of Government Version: 07/11/2022
Date Data Arrived at EDR: 07/12/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 9
Source: Department of Ecology
Telephone: 360-407-7170
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 09/13/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Sites
Sites that have entered either the Voluntary Cleanup Program or its predecessor Independent Remedial Action Program.

Date of Government Version: 07/11/2022
Date Data Arrived at EDR: 07/12/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 9
Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 10/11/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

ICR: Independent Cleanup Reports
These are remedial action reports Ecology has received from either the owner or operator of the sites. These actions have been conducted without department oversight or approval and are not under an order or decree. This database is no longer updated by the Department of Ecology.

Date of Government Version: 12/01/2002
Date Data Arrived at EDR: 01/03/2003
Date Made Active in Reports: 01/22/2003
Number of Days to Update: 19
Source: Department of Ecology
Telephone: 360-407-7200
Last EDR Contact: 08/10/2009
Next Scheduled EDR Contact: 11/09/2009
Data Release Frequency: No Update Planned

PTAP: PTAP Site Listing
A list of sites accepted into the Petroleum Technical Assistance Program. The Petroleum Technical Assistance Program (PTAP) expands the state’s ability to respond to the high customer demand to clean up petroleum contaminated sites. Under the PTAP, the Pollution Liability Insurance Agency (PLIA) may provide informal site-specific technical consultations and issue written opinion letters to persons conducting independent remedial actions at qualifying petroleum cleanup sites. PLIA may provide these services under the authority of RCW 70.149.040(9) and the Model Toxics Control Act (MTCA), Chapter 70.149 RCW and Chapter 173-340 WAC.
Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Sites Listing
A listing of brownfields sites included in the Confirmed & Suspected Sites Listing. Brownfields are abandoned, idle or underused commercial or industrial properties, where the expansion or redevelopment is hindered by real or perceived contamination. Brownfields vary in size, location, age, and past use -- they can be anything from a five-hundred acre automobile assembly plant to a small, abandoned corner gas station.

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.

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE: Solid Waste Tire Facilities
This study identified sites statewide with unauthorized accumulations of scrap tires.

SWRCY: Recycling Facility List
A listing of recycling center locations.
SWTIRE 2: Solid Waste Tire Facilities 2
solid waste tire piles
Date of Government Version: 06/01/2022
Source: Department of Ecology
Date Data Arrived at EDR: 06/23/2022
Telephone: 425-649-7104
Date Made Active in Reports: 09/12/2022
Last EDR Contact: 08/24/2022
Number of Days to Update: 81
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

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
Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007
Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008
Last EDR Contact: 10/20/2022
Number of Days to Update: 52
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

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
Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004
Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004
Last EDR Contact: 06/09/2004
Number of Days to Update: 39
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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
Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009
Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009
Last EDR Contact: 10/11/2022
Number of Days to Update: 137
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.
Date of Government Version: 04/01/2014
Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014
Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015
Last EDR Contact: 10/28/2022
Number of Days to Update: 176
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Varies

Local Lists of Hazardous Waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEA's National Clandestine Laboratory Register.
Date of Government Version: 07/29/2022
Source: Drug Enforcement Administration
Date Data Arrived at EDR: 08/18/2022
Telephone: 202-307-1000
Date Made Active in Reports: 10/24/2022
Last EDR Contact: 08/18/2022
Number of Days to Update: 67
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned
ALLSITES: Facility/Site Identification System Listing
Information on facilities and sites of interest to the Department of Ecology.

Date of Government Version: 07/25/2022
Date Data Arrived at EDR: 07/26/2022
Date Made Active in Reports: 10/06/2022
Number of Days to Update: 72

Source: Department of Ecology
Telephone: 360-407-6423

CDL: Clandestine Drug Lab Contaminated Site List
Illegal methamphetamine labs use hazardous chemicals that create public health hazards. Chemicals and residues can cause burns, respiratory and neurological damage, and death. Biological hazards associated with intravenous needles, feces, and blood also pose health risks.

Date of Government Version: 06/30/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 10/19/2022
Number of Days to Update: 78

Source: Department of Health
Telephone: 360-236-3380

HIST CDL: List of Sites Contaminated by Clandestine Drug Labs
This listing of contaminated sites by Clandestine Drug Labs includes non-remediated properties. The current CDL listing does not. This listing is no longer updated by the state agency.

Date of Government Version: 02/08/2007
Date Data Arrived at EDR: 06/26/2007
Date Made Active in Reports: 07/19/2007
Number of Days to Update: 23

Source: Department of Health
Telephone: 360-236-3381

CSCSL NFA: Confirmed and Contaminated Sites - No Further Action
This report contains information about sites that are undergoing cleanup and sites that are awaiting further investigation and/or cleanup. Sites on the Hazardous Sites List (see above) are included in this data set.

Date of Government Version: 07/11/2022
Date Data Arrived at EDR: 07/12/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 9

Source: Department of Ecology
Telephone: 360-407-7170

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: 07/29/2022
Date Data Arrived at EDR: 08/18/2022
Date Made Active in Reports: 10/24/2022
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000

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.
Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022  
Date Data Arrived at EDR: 09/19/2022  
Date Made Active in Reports: 09/30/2022  
Number of Days to Update: 11  
Next Scheduled EDR Contact: 01/02/2023  
Data Release Frequency: Quarterly

SPILLS ERTS: Environmental Report Tracking System Listing
All programs in Ecology use the ERTS System for any Incidents regardless of the ?type? of incident. The programs include; Spills, Hazardous Waste, Water Quality, Air Quality, Toxics Cleanup, Water Resources, etc.

Date of Government Version: 05/26/2022  
Date Data Arrived at EDR: 06/14/2022  
Date Made Active in Reports: 09/07/2022  
Number of Days to Update: 85  
Next Scheduled EDR Contact: 12/12/2022  
Data Release Frequency: Varies

SPILLS: Reported Spills
Spills reported to the Spill Prevention, Preparedness and Response Division.

Date of Government Version: 05/26/2022  
Date Data Arrived at EDR: 06/08/2022  
Date Made Active in Reports: 08/29/2022  
Number of Days to Update: 82  
Next Scheduled EDR Contact: 12/12/2022  
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: 05/23/2006  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 03/06/2013  
Number of Days to Update: 62  
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: 06/20/2022  
Date Data Arrived at EDR: 06/21/2022  
Date Made Active in Reports: 06/28/2022  
Number of Days to Update: 7  
Next Scheduled EDR Contact: 01/02/2023  
Data Release Frequency: Quarterly
FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Source: USGS
Telephone: 888-275-8747

FEDLAND: Federal and Indian Lands

Date of Government Version: 04/02/2018
Source: U.S. Geological Survey
Telephone: 888-275-8747

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: 01/01/2017
Source: Environmental Protection Agency
Telephone: 615-532-8599

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: 06/20/2022
Source: Environmental Protection Agency
Telephone: 202-566-1917

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.
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.

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.

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.

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.

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.
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.

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.

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

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.

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.
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
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667

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
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017

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: 06/10/2022
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 69
Next Scheduled EDR Contact: 01/30/2023
Data Release Frequency: Quarterly

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/11/2022

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 08/25/2022

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/25/2022

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Next Scheduled EDR Contact: 02/13/2023
Data Release Frequency: Varies

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/03/2022

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.
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.

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.

DOT OPS: Incident and Accident Data
Department of Transportation, Office of Pipeline Safety Incident and Accident data.

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.

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.
INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/16/2023
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: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87
Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 10/27/2022
Next Scheduled EDR Contact: 02/16/2023
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74
Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/01/2022
Next Scheduled EDR Contact: 01/09/2023
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 1931 and 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.
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016
Source: EPA

Date Data Arrived at EDR: 10/26/2016
Telephone: 202-564-2496

Date Made Active in Reports: 02/03/2017
Last EDR Contact: 09/26/2017
Number of Days to Update: 100
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Source: EPA

Date Data Arrived at EDR: 10/26/2016
Telephone: 202-564-2496

Date Made Active in Reports: 02/03/2017
Last EDR Contact: 09/26/2017
Number of Days to Update: 100
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022
Source: Department of Labor, Mine Safety and Health Administration

Date Data Arrived at EDR: 08/17/2022
Telephone: 303-231-5959

Date Made Active in Reports: 08/31/2022
Last EDR Contact: 08/17/2022
Number of Days to Update: 14
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 08/01/2022
Source: DOL, Mine Safety & Health Admi

Date Data Arrived at EDR: 08/02/2022
Telephone: 202-693-9424

Date Made Active in Reports: 09/30/2022
Last EDR Contact: 10/04/2022
Number of Days to Update: 59
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Source: USGS

Date Data Arrived at EDR: 05/27/2020
Telephone: 703-648-7709

Date Made Active in Reports: 08/13/2020
Last EDR Contact: 08/17/2022
Number of Days to Update: 78
Next Scheduled EDR Contact: 12/05/2022
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
Source: USGS

Date Data Arrived at EDR: 06/08/2011
Telephone: 703-648-7709

Date Made Active in Reports: 09/13/2011
Last EDR Contact: 08/17/2022
Number of Days to Update: 97
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.
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).

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

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.

PFAS NPL EPA: PFAS NPL EPA Listing
a list of National Priorities List sites where PFAS detections have been confirmed in environmental media at the site.
PFAS FEDERAL SITES: Federal Agency Locations with Known or Suspected PFAS Detections Listing
A list of Federal Agency Locations with Known or Suspected PFAS Detections. Indicates if PFAS contamination is known (testing has occurred) or suspected (activities associated with AFFF use occurred at location).

PFAS TSCA: PFAS Production Data
Chemical Data Reporting data containing information on PFAS related chemical substances manufactured for a certain year

PFAS RCRA MANIFEST: PFAS Transfers Identified in the RCRA Database Listing
A list of PFAS Transfers Identified in RCRAInfo E-manifest Text String and State Waste Code Search

PFAS ATSDR: PFAS Contamination Site Location Listing
PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

PFAS WQP EPA: Environmental Media Sampling Data
Environmental media PFAS sampling data.

PFAS NPDES: PFAS Discharge Monitoring Report Listing
Discharge Monitoring Report (DMR) forms are provided by EPA for reporting monitoring results required by the NPDES permit for discharge, for PFAS related chemicals.
PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing
A list of facilities in industries that may be handling PFAS.

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing
A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility names to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing
Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration’s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

AQUEOUS FOAM ERNS: Aqueous Foam Related Incidents Listing
Initial calls reported to the National Response Center indicating AFFF (Aqueous film forming foam) usage. Aqueous Film Forming Foam (AFFF) is a fire suppressant used to extinguish flammable liquid fires such as fuel fires.

PFAS: PFAS Contamination Site Location Listing
PFOS and PFOA stand for perfluorooctane sulfonate and perfluorooctanoic acid, respectively. Both are fluorinated organic chemicals, part of a larger family of compounds referred to as perfluoroalkyl substances (PFASs).
AQUEOUS FOAM: Firefighting Foam Incidents
Aqueous film-forming foam-laced water running off from fuel spills, firefighting events and routine training sessions has put those chemicals in ground water, surface water, sediments, biota, and other natural resources of the state.

AIRS (EMI): Washington Emissions Data System
Emissions inventory data.

ASBESTOS: Asbestos Notification Listing
Asbestos sites

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

DRYCLEANERS: Drycleaner List
A listing of registered drycleaners who registered with the Department of Ecology (using the SIC code of 7215 and 7216) as hazardous waste generators.

Financial Assurance 1: Financial Assurance Information Listing
A listing of financial assurance information for underground storage tank 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.
Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous 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: 08/07/2022
Date Data Arrived at EDR: 08/10/2022
Date Made Active in Reports: 10/26/2022
Number of Days to Update: 77
Source: Department of Ecology
Telephone: 360-407-6754
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing
A listing of 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: 11/15/2017
Date Data Arrived at EDR: 11/20/2017
Date Made Active in Reports: 01/04/2018
Number of Days to Update: 45
Source: Department of Ecology
Telephone: 360-407-6136
Last EDR Contact: 10/14/2022
Next Scheduled EDR Contact: 02/20/2023
Data Release Frequency: No Update Planned

INACTIVE DRYCLEANERS: Inactive Drycleaners
A listing of inactive drycleaner facility locations.

INACTIVE DRYCLEANERS: Inactive Drycleaners
A listing of inactive drycleaner facility locations.

WA MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 08/11/2021
Date Made Active in Reports: 11/23/2021
Number of Days to Update: 104
Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 09/08/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Annually

NPDES: Water Quality Permit System Data
A listing of permitted wastewater facilities.

NPDES: Water Quality Permit System Data
A listing of permitted wastewater facilities.

UIC: Underground Injection Wells Listing
A listing of underground injection wells.

UIC: Underground Injection Wells Listing
A listing of underground injection wells.

PCS ENF: Enforcement data
No description is available for this data
PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR’s opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.
EDR Hist Cleaner: EDR Exclusive Historical Cleaners
EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as “High Risk Historical Records”, or HRHR. EDR’s HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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 Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176
Source: Department of Ecology
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 Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193
Source: Department of Ecology
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 Ecology in Washington.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176
Source: Department of Ecology
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies
COUNTY RECORDS

KING COUNTY:

LF KING: Abandoned Landfill Study in King County
The King County Abandoned Landfill Survey was conducted from October through December 1984 by the Health Department’s Environmental Health Division at the request of the King County Council. The primary objective of the survey was to determine if any public health problems existed at the predetermined 24 sites.

Date of Government Version: 04/30/1985
Date Data Arrived at EDR: 11/07/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0
Source: Seattle-King County Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 10/21/1994
Date Made Active in Reports: N/A
Data Release Frequency: No Update Planned

SEATTLE COUNTY:

LF SEATTLE CITY: Abandoned Landfill Study in the City of Seattle
The Seattle Abandoned Landfill Survey was conducted in June and July of 1984 by the Health Department’s Environmental Health Division at the request of the Mayor’s Office. The primary objective of the survey was to determine if any public health problems existed at the predetermined 12 sites.

Date of Government Version: 07/30/1984
Date Data Arrived at EDR: 11/07/1994
Date Made Active in Reports: N/A
Number of Days to Update: 0
Source: Seattle-King County Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 10/21/1994
Date Made Active in Reports: N/A
Data Release Frequency: No Update Planned

SEATTLE/KING COUNTY:

LF SEATTLE/KING: Seattle - King County Abandoned Landfill Toxicity / Hazard Assessment Project
This report presents the Seattle-King County Health Department’s follow-up investigation of two city owned and four county owned abandoned landfills which was conducted from February to December 1986.

Date of Government Version: 12/31/1986
Date Data Arrived at EDR: 08/18/1995
Date Made Active in Reports: 09/20/1995
Number of Days to Update: 33
Source: Department of Public Health
Telephone: 206-296-4785
Last EDR Contact: 08/14/1995
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SNOHOMISH COUNTY:

LF SNOHOMISH: Solid Waste Sites of Record at Snohomish Health District
Solid waste disposal and/or utilization sites in Snohomish County.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/25/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 29
Source: Snohomish Health District
Telephone: 206-339-5250
Last EDR Contact: 09/08/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: No Update Planned

TACOMA/PIERCE COUNTY:

LF TACOMA/PIERCE: Closed Landfill Survey
Following numerous requests for information about closed dumpsites and landfills in Pierce County, the Tacoma-Pierce County Health Department decided to conduct a study on the matter. The aim of the study was to evaluate public health risks associated with the closed dumpsites and landfills, and to determine the need, if any, for further investigations of a more detailed nature. The sites represent all of the known dumpsites and landfills closed after 1950.
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.

CT MANIFEST: Hazardous Waste Manifest Data
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: 08/08/2022
Date Data Arrived at EDR: 08/08/2022
Date Made Active in Reports: 10/21/2022
Number of Days to Update: 74
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: No Update Planned

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: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/28/2022
Next Scheduled EDR Contact: 02/06/2023
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53
Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76
Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/29/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association’s annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

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: Daycare Center Listing
Source: Department of Social & Health Services
Telephone: 253-383-1735

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Ecology
Telephone: 360-407-6121

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey
Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.
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 ENE

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.
HYDROLOGIC INFORMATION
Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

**Flood Plain Panel at Target Property**
- 5303260125C - FEMA Q3 Flood data

**Additional Panels in search area:**
- 5301150125C - FEMA Q3 Flood data
- 5301150180C - FEMA Q3 Flood data
- 5303260180C - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

**NWI Quad at Target Property**
- POTLATCH - NWI Electronic Data Coverage

**NWI Electronic Data Coverage**
- 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.

**Site-Specific Hydrogeological Data:**
- Search Radius: 1.25 miles
- Status: Not found

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.

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>LOCATION FROM TP</th>
<th>GENERAL DIRECTION GROUNDWATER FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Reported</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.
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

<table>
<thead>
<tr>
<th>Era:</th>
<th>Cenozoic</th>
</tr>
</thead>
<tbody>
<tr>
<td>System:</td>
<td>Quaternary</td>
</tr>
<tr>
<td>Series:</td>
<td>Quaternary</td>
</tr>
<tr>
<td>Code:</td>
<td>Q</td>
</tr>
</tbody>
</table>

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

(decoded above as Era, System & Series)

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: Grove
Soil Surface Texture: gravelly sandy loam
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class: Somewhat excessively drained
Hydric Status: Not hydric
Corrosion Potential - Uncoated Steel: High
Depth to Bedrock Min: > 0 inches
Depth to Watertable Min: > 0 inches

### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Upper</th>
<th>Lower</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>9 inches</td>
<td>gravelly sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.</td>
<td>Max: 141 Min: 42</td>
<td>Max: 6 Min: 5.6</td>
</tr>
<tr>
<td>2</td>
<td>9 inches</td>
<td>24 inches</td>
<td>very gravelly sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.</td>
<td>Max: 141 Min: 42</td>
<td>Max: 6 Min: 5.6</td>
</tr>
<tr>
<td>3</td>
<td>24 inches</td>
<td>59 inches</td>
<td>very gravelly loamy sand</td>
<td>Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.</td>
<td>Max: 141 Min: 42</td>
<td>Max: 6 Min: 5.6</td>
</tr>
</tbody>
</table>
Soil Map ID: 2

Soil Component Name: Hoodsport

Soil Surface Texture: gravelly sandy 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: > 69 inches

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>5 inches</td>
<td>gravelly sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel</td>
<td>Max: 0.42 Min: 0.01</td>
</tr>
<tr>
<td>2</td>
<td>5 inches</td>
<td>24 inches</td>
<td>very gravelly sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel</td>
<td>Max: 0.42 Min: 0.01</td>
</tr>
<tr>
<td>3</td>
<td>24 inches</td>
<td>59 inches</td>
<td>gravelly sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel</td>
<td>Max: 0.42 Min: 0.01</td>
</tr>
</tbody>
</table>
Soil Map ID: 3

Soil Component Name: Hoodsport

Soil Surface Texture: gravelly sandy 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: > 69 inches

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>gravelly sandy loam</td>
<td>Granular</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with</td>
<td>Max: 0.42 Min: 0.01</td>
<td>Max: 6 Min: 5.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>materials (35 pect. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>Gravels with fines, Silty Gravel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5 inches</td>
<td>very gravelly sandy loam</td>
<td>Granular</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with</td>
<td>Max: 0.42 Min: 0.01</td>
<td>Max: 6 Min: 5.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>materials (35 pect. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>Gravels with fines, Silty Gravel</td>
<td></td>
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<tr>
<td>3</td>
<td>24 inches</td>
<td>gravelly sandy loam</td>
<td>Granular</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with</td>
<td>Max: 0.42 Min: 0.01</td>
<td>Max: 6 Min: 5.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>materials (35 pect. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>Gravels with fines, Silty Gravel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Soil Map ID: 4

#### Soil Component Name: Hoodsport

#### Soil Surface Texture: gravelly sandy 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: > 69 inches

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary Upper</th>
<th>Boundary Lower</th>
<th>Soil Texture Class</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity (micro m/sec) Max: Min:</th>
<th>Soil Reaction (pH) Max: Min:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>5 inches</td>
<td>gravelly sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel</td>
<td>Max: 0.42 Min: 0.01</td>
<td>5.6</td>
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<tr>
<td>2</td>
<td>5 inches</td>
<td>24 inches</td>
<td>very gravelly sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel</td>
<td>Max: 0.42 Min: 0.01</td>
<td>5.6</td>
</tr>
<tr>
<td>3</td>
<td>24 inches</td>
<td>59 inches</td>
<td>gravelly sandy loam</td>
<td>Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.</td>
<td>COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel</td>
<td>Max: 0.42 Min: 0.01</td>
<td>5.6</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>DATABASE</th>
<th>SEARCH DISTANCE (miles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal USGS</td>
<td>1.000</td>
</tr>
<tr>
<td>Federal FRDS PWS</td>
<td>Nearest PWS within 1 mile</td>
</tr>
<tr>
<td>State Database</td>
<td>1.000</td>
</tr>
</tbody>
</table>

FEDERAL USGS WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>D24</td>
<td>USGS40001256045</td>
<td>1/2 - 1 Mile East</td>
</tr>
<tr>
<td>25</td>
<td>USGS40001256121</td>
<td>1/2 - 1 Mile NE</td>
</tr>
<tr>
<td>E32</td>
<td>USGS40001256105</td>
<td>1/2 - 1 Mile ENE</td>
</tr>
<tr>
<td>F56</td>
<td>USGS40001256165</td>
<td>1/2 - 1 Mile NNE</td>
</tr>
<tr>
<td>57</td>
<td>USGS40001256133</td>
<td>1/2 - 1 Mile ENE</td>
</tr>
<tr>
<td>58</td>
<td>USGS40001256334</td>
<td>1/2 - 1 Mile NE</td>
</tr>
<tr>
<td>79</td>
<td>USGS40001255607</td>
<td>1/2 - 1 Mile South</td>
</tr>
<tr>
<td>H80</td>
<td>USGS40001255651</td>
<td>1/2 - 1 Mile SSE</td>
</tr>
<tr>
<td>L92</td>
<td>USGS40001255593</td>
<td>1/2 - 1 Mile SSE</td>
</tr>
</tbody>
</table>

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>No PWS System Found</td>
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</tr>
</tbody>
</table>

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>WALOG2000321917</td>
<td>0 - 1/8 Mile NE</td>
</tr>
<tr>
<td>A2</td>
<td>WALOG2000357732</td>
<td>0 - 1/8 Mile NE</td>
</tr>
<tr>
<td>B3</td>
<td>WALOG2000479566</td>
<td>1/4 - 1/2 Mile ENE</td>
</tr>
<tr>
<td>B4</td>
<td>WALOG2000479567</td>
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</tr>
<tr>
<td>B5</td>
<td>WALOG2000479568</td>
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<td>B9</td>
<td>WALOG2000479572</td>
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<td>B10</td>
<td>WALOG2000481234</td>
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<td>WALOG2000479569</td>
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<td>MAP ID</td>
<td>WELL ID</td>
<td>LOCATION</td>
</tr>
<tr>
<td>-------</td>
<td>------------------</td>
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<tr>
<td>B13</td>
<td>WLOG2000479570</td>
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<td>1/4 - 1/2 Mile ENE</td>
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</tr>
<tr>
<td>16</td>
<td>WA120000028746</td>
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<tr>
<td>C17</td>
<td>WA12000002073</td>
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<td>C18</td>
<td>WA120000024047</td>
<td>1/4 - 1/2 Mile NE</td>
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<td>C19</td>
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<td>WLOG200045355</td>
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</tr>
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<td>C22</td>
<td>WLOG200045358</td>
<td>1/4 - 1/2 Mile NE</td>
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<tr>
<td>23</td>
<td>WLOG200045096</td>
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<td>D26</td>
<td>WLOG2000485194</td>
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<tr>
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<td>D28</td>
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<td>WA120000011641</td>
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**Project Tag #:**
- Not Reported

**Date Received:**
- 08-JUL-10
- 05-JUL-10
- 08-JUL-10

**Casing Depth (ft):**
- 26.5
- 71.5
- 71.5

**Well Log ID:**
- 657225
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#### Water Wells 55060

- **Source Name:** WELL #2 AHA969 8"
- **Source Type:** Ground Water - Well
- **Well Depth:** 100
- **Date Source Inactive:** Not Reported
- **System Name:** MINERVA BEACH RESORT
- **System Type:** Comm
- **Total Population Served:** 80
- **PWS Status:** Active
- **DOE Well Tag:** Not Reported
- **Influenced by Droughts:** N
- **Influenced by Surface Water:** U

#### Water Wells SP700

- **Source Name:** WELL #1 AHA968
- **Source Type:** Ground Water - Well
- **Well Depth:** 58
- **Date Source Inactive:** Not Reported
- **System Name:** POTLATCH STATE PARK
- **System Type:** TNC
- **Total Population Served:** 1055
- **PWS Status:** Active
- **DOE Well Tag:** Not Reported
- **Influenced by Droughts:** N
- **Influenced by Surface Water:** P

#### Water Wells 11854

- **Source Name:** HOODSPORT INN WELL 1
- **Source Type:** Ground Water - Well
- **Well Depth:** 80
- **Date Source Inactive:** 05/01/2001
- **System Name:** HOODSPORT INN RESTAURANT
- **System Type:** TNC
- **Total Population Served:** 30
- **PWS Status:** Inactive
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- **Influenced by Droughts:** Not Reported
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<th>PSI:</th>
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| C22 | Ecology Well Logs | WA WELLS WALOG2000045358 |
| NE | 1/4 - 1/2 Mile | Lower |

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| 23 | Ecology Well Logs | WA WELLS WALOG2000045096 |
| SE | 1/2 - 1 Mile | Lower |

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| D24 | Ecology Well Logs | FED USGS USGS40001256045 |
| East | 1/2 - 1 Mile | Lower |

<p>| Organization ID: | USGS-WA |
| Organization Name: | USGS Washington Water Science Center |
| Monitor Location: | 22N/04W-26P01 |
| Description: | Not Reported |
| HUC: | 17110018 |</p>
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<td>Well Hole Depth:</td>
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**Ground water levels, Number of Measurements: 1**

Level reading date: 1974-04-17

Feet below surface: Not Reported

Feet to sea level: Not Reported

Note: The site was flowing, but the head could not be measured without additional equipment.

---

**Well Test:**

The site was flowing, but the head could not be measured without additional equipment.
### D28 East

1/2 - 1 Mile

| Database: | Water Wells | PWS ID: | 02743 |
| Source #: | 01 | Source Name: | WELL #1 |
| Source Status: | Inactive | Source Type: | Ground Water - Well |
| Source Use: | Permanent | Date Source Effective: | 10/21/1993 |
| Date Source Inactive: | 02/28/1995 | Water Resource Inventory Area: | Skokomish-Dosewallips |
| Well Depth: | 90 | Source Susceptibility: | Not Reported |
| System Name: | MINERVA BEACH RV RESORT & M V EAST | System Type: | Comm |
| Total Connections: | 35 | Total Population Served: | 53 |
| Residential Connection: | 24 | PWS Status: | Inactive |
| Capacity (gpm): | 90 | DOE Well Tag: | Not Reported |
| Influenced by Flooding: | Not Reported | Influenced by Droughts: | Not Reported |
| Influenced by Surface Water: | U |

### 29 ENE

1/2 - 1 Mile

| Database: | Water Wells | PWS ID: | 55060 |
| Source #: | 01 | Source Name: | WELL #1 NO TAG |
| Source Status: | Inactive | Source Type: | Ground Water - Well |
| Source Use: | Permanent | Date Source Effective: | 01/01/1970 |
| Date Source Inactive: | 10/21/1993 | Water Resource Inventory Area: | Skokomish-Dosewallips |
| Well Depth: | 90 | Source Susceptibility: | X |
| System Name: | MINERVA BEACH RESORT | Public Water System Group: | A |
| System Type: | Comm | Full Time Res Pop: | 60 |
| Total Population Served: | 80 | Total Connections: | 81 |
| PWS Status: | Active | Residential Connection: | 35 |
| DOE Well Tag: | Not Reported | Capacity (gpm): | 0 |
| Influenced by Droughts: | N | Influenced by Flooding: | N |
| Influenced by Surface Water: | U |

### 30 NE

1/2 - 1 Mile

| Database: | Water Wells | PWS ID: | AD414 |
| Source #: | 01 | Source Name: | Well #1 No Tag |
| Source Status: | Inactive | Source Type: | Ground Water - Well |
| Source Use: | Permanent | Date Source Effective: | 03/30/2016 |
| Date Source Inactive: | 12/12/2019 | Water Resource Inventory Area: | Skokomish-Dosewallips |
| Well Depth: | 90 | Source Susceptibility: | Not Reported |
| System Name: | Kelsey's All Natural | Public Water System Group: | A |
| System Type: | TNC | Full Time Res Pop: | 0 |
| Total Population Served: | 39 | Total Connections: | 1 |
| PWS Status: | Inactive | Residential Connection: | 0 |
| DOE Well Tag: | Not Reported | Capacity (gpm): | 60 |
| Influenced by Droughts: | N | Influenced by Flooding: | N |
TC7174191.2s   Page A-23

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Table: Map ID
- E31
- E32
- E33

Database: WA Wells
EDR ID Number: WA120000018729

Map ID: E32
Direction: ENE
Distance: 1/2 - 1 Mile
Elevation: Lower

Database: WA Wells
EDR ID Number: WA120000018729

Map ID: E33
Direction: ENE
Distance: 1/2 - 1 Mile
Elevation: Lower

Database: WA Wells
EDR ID Number: WA120000018729

Map ID: E34
Direction: ENE
Distance: 1/2 - 1 Mile
Elevation: Lower

Database: WA Wells
EDR ID Number: WA120000018729

Table: Organization ID
- Organization ID: USGS-WA
- Organization Name: USGS Washington Water Science Center

Table: Monitor Location
- Monitor Location: 22N/04W-26L01

Table: Description
- Description: Not Reported
- HUC: 17110018
- Drainage Area Units: Not Reported
- Contrib Drainage Area Units: Not Reported
- Aquifer: Not Reported
- Formation Type: Not Reported
- Construction Date: 19740101

Table: Well Depth
- Well Depth: 208
- Well Depth Units: ft
- Well Hole Depth Units: Not Reported

Table: Well Log ID
- Well Log ID: 697377

Table: Project Tag #
- Project Tag #: Not Reported

Table: Date Received
- Date Received: 07-JAN-11

Table: Casing Depth (ft)
- Casing Depth (ft): 5

Table: Well Owner
- Well Owner: Washington Dept of Transportation

Table: Driller #
- Driller #: Not Reported

Table: Flow Rate (gpm)
- Flow Rate (gpm): Not Reported

Table: PSI
- PSI: Not Reported

Table: Water Reclamation #
- Water Reclamation #: 16

Table: Water Wells
- Water Wells: Not Reported
- Source #: 01
- Source Status: Active
- Source Use: Permanent
- Date Source Inactive: Not Reported
- Well Depth: 61
- System Name: TILLICUM BEACH INC
- System Type: TNC
- Total Population Served: 13
- PWS Status: Active
- DOE Well Tag: Not Reported
- Influenced by Droughts: N
- Influenced by Surface Water: U

Table: Public Water System Group
- Public Water System Group: A

Table: Capacity (gpm)
- Capacity (gpm): 50
- Residentia Connection: 22

Table: Total Connections
- Total Connections: 23

Table: Total Population Served
- Total Population Served: 13

Table: Residential Connection
- Residential Connection: 22

Table: DOE Well Tag
- DOE Well Tag: Not Reported

Table: UInfluenced by Surface Water
- UInfluenced by Surface Water: Not Reported

Table: Influeced by Flooding
- Influeced by Flooding: N

Table: Contrib Drainage Area
- Contrib Drainage Area: Not Reported

Table: Aquifer
- Aquifer: Not Reported

Table: Formation Type
- Formation Type: Not Reported

Table: Construction Date
- Construction Date: 19740101

Table: Well Depth Units
- Well Depth Units: ft

Table: Well Hole Depth Units
- Well Hole Depth Units: Not Reported

Table: Drainage Area Units
- Drainage Area Units: Not Reported

Table: Contrib Drainage Area Units
- Contrib Drainage Area Units: Not Reported

Table: Aquifer Type
- Aquifer Type: Not Reported

Table: Formation Type
- Formation Type: Not Reported

Table: Construction Date
- Construction Date: 19740101

Table: Well Depth
- Well Depth: 208
- Well Depth Units: ft
- Well Hole Depth Units: Not Reported

Table: Well Log ID
- Well Log ID: 697377

Table: Project Tag #
- Project Tag #: Not Reported

Table: Date Received
- Date Received: 07-JAN-11

Table: Casing Depth (ft)
- Casing Depth (ft): 5

Table: Well Owner
- Well Owner: Washington Dept of Transportation

Table: Driller #
- Driller #: Not Reported

Table: Flow Rate (gpm)
- Flow Rate (gpm): Not Reported

Table: PSI
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Table: Water Reclamation #
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| E42    | ENE       | 1/2 - 1 Mile | Lower     | Ecology Well Logs | WA WELLs WALOG2000499952 |
|        |           |          |           | Well Log ID: | 697417 |
|        |           |          |           | Project Tag #: | Not Reported |
|        |           |          |           | Date Received: | 07-JAN-11 |
|        |           |          |           | Casing Depth (ft): | 7.5 |
|        |           |          |           | Well Owner: | Washington State Dept of Transport |
|        |           |          |           | Driller #: | Not Reported |
|        |           |          |           | Flow Rate (gpm): | Not Reported |
|        |           |          |           | PSI: | Not Reported |
|        |           |          |           | Water Reclamation #: | 16 |

| E43    | ENE       | 1/2 - 1 Mile | Lower     | Ecology Well Logs | WA WELLs WALOG2000205809 |
|        |           |          |           | Well Log ID: | 277213 |
|        |           |          |           | Project Tag #: | Not Reported |
|        |           |          |           | Date Received: | Not Reported |
|        |           |          |           | Casing Depth (ft): | 61 |
|        |           |          |           | Well Owner: | W. C. ASEN |
|        |           |          |           | Driller #: | Not Reported |
|        |           |          |           | Flow Rate (gpm): | Not Reported |
|        |           |          |           | PSI: | Not Reported |
|        |           |          |           | Water Reclamation #: | 16 |

| E44    | ENE       | 1/2 - 1 Mile | Lower     | Ecology Well Logs | WA WELLs WALOG2000049019 |
|        |           |          |           | Well Log ID: | 56384 |
|        |           |          |           | Project Tag #: | Not Reported |
|        |           |          |           | Date Received: | Not Reported |
|        |           |          |           | Casing Depth (ft): | 69 |
| Database: | Water Wells | Source #: | 01 | Source Status: | Active | Source Use: | Emergency |
| Well Tag #: | Not Reported | Source Name: | SPRING A | Source Type: | Ground Water - Spring | Date Source Inactive: | Not Reported |
| Notice of Intent #: | AE10866 | Date Source Effective: | 01/01/1970 | Water Resource Inventory Area: | Skokomish-Dosewallips | Water Depth: | 0 |
| Well completion: | 18-OCT-10 | Residential Connection: | 2 | DOE Well Tag: | Not Reported | Capacity (gpm): | 167 |
| Well Type: | Decommissioning | Influenced by Droughts: | N | Influenced by Surface Water: | U | Influenced by Flooding: | N |

| Database: | Ecology Well Logs | Well Log ID: | 697410 | Project Tag #: | Not Reported | Date Received: | 07-JAN-11 |
| Well Tag #: | Not Reported | Casing Depth (ft): | 12.5 | Well Owner: | Margie Sleight | Driller #: | Not Reported |
| Notice of Intent #: | SE08244 | Well Log ID: | 697373 | Project Tag #: | Not Reported | Date Received: | 07-JAN-11 |
| Diameter (in): | 6 | Casing Depth (ft): | 15 | Well Owner: | Randy Flem | Driller #: | Not Reported |
| Well completion: | 18-OCT-10 | Well Log ID: | 697410 | Project Tag #: | Not Reported | Date Received: | 07-JAN-11 |
| Well Type: | Decommissioning | Casing Depth (ft): | 15 | Well Owner: | Randy Flem | Driller #: | Not Reported |
| Static Water Level: | Not Reported | Casing Depth (ft): | 15 | Well Owner: | Randy Flem | Driller #: | Not Reported |
| Flow Type: | Not Reported | Casing Depth (ft): | 15 | Well Owner: | Randy Flem | Driller #: | Not Reported |
| Well Test: | Not Reported | Casing Depth (ft): | 15 | Well Owner: | Randy Flem | Driller #: | Not Reported |

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Well completion: 10-DEC-98
Well Type: Water
Static Water Level: Not Reported
Flow Type: Not Reported
Well Test: Not Reported
Well Owner: JOYCE DAMAN
Driller #: 1706
Flow Rate (gpm): Not Reported
PSI: Not Reported
Water Reclamation #: 16

F45  NNE  1/2 - 1 Mile  Lower

Database: Water Wells
Source #: 01
Source Status: Active
Source Use: Emergency
Date Source Inactive: Not Reported
Date Source Effective: 01/01/1970
Water Depth: 0
System Name: CUSHMAN PLANT 2
System Type: TNC
Total Population Served: 28
PWS Status: Active
DOE Well Tag: Not Reported
Influenced by Droughts: N
Influenced by Surface Water: U

F46  NNE  1/2 - 1 Mile  Lower

Database: Ecology Well Logs
Well Tag #: Not Reported
Notice of Intent #: AE10866
Diameter (in): 6
Well completion: 18-OCT-10
Well Type: Decommissioning
Static Water Level: Not Reported
Flow Type: Not Reported
Well Test: Not Reported
Well Log ID: 697410
Project Tag #: Not Reported
Date Received: 07-JAN-11
Casing Depth (ft): 12.5
Well Owner: Margie Sleight
Driller #: Not Reported
Flow Rate (gpm): Not Reported
PSI: Not Reported
Water Reclamation #: 16

F47  NNE  1/2 - 1 Mile  Lower

Database: Ecology Well Logs
Well Tag #: Not Reported
Notice of Intent #: SE08244
Diameter (in): 6
Well completion: 18-OCT-10
Well Type: Decommissioning
Static Water Level: Not Reported
Flow Type: Not Reported
Well Test: Not Reported
Well Log ID: 697373
Project Tag #: Not Reported
Date Received: 07-JAN-11
Casing Depth (ft): 15
Well Owner: Randy Flem
Driller #: Not Reported
Flow Rate (gpm): Not Reported
PSI: Not Reported
Water Reclamation #: 16
## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Database: Ecology Well Logs

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**F52**

**NNE**

**1/2 - 1 Mile**

**Lower**

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**F53**

**NNE**

**1/2 - 1 Mile**

**Lower**

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**F54**

**NNE**

**1/2 - 1 Mile**

**Lower**

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**F55**

**NNE**

1/2 - 1 Mile Lower

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**F56**

**NNE**

1/2 - 1 Mile Lower

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| Ground water levels, Number of Measurements: | 1 | Level reading date: | 1968-01-01 |
| Feet below surface: | Not Reported | Feet to sea level: | Not Reported |
| Note: | The site was flowing, but the head could not be measured without additional equipment. | |

---

**57**

**ENE**

1/2 - 1 Mile Lower

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TC7174191.2s  Page A-30
Ground water levels, Number of Measurements: 1
Level reading date: 1948-11-01
Feet below surface: Not Reported
Feet to sea level: Not Reported
Note: The site was flowing, but the head could not be measured without additional equipment.

58 NE 1/2 - 1 Mile
Lower

Organization ID: USGS-WA
Organization Name: USGS Washington Water Science Center
Monitor Location: 22N/04W-26F01
Type: Well
Description: Not Reported
Drainage Area: Not Reported
Contrib Drainage Area: Not Reported
Aquifer: Not Reported
WellDepth: 54
Well Hole Depth: Not Reported

Ground water levels, Number of Measurements: 1
Level reading date: 1968-02-01
Feet below surface: 10
Feet to sea level: Not Reported
Note: Not Reported

G59 NE 1/2 - 1 Mile
Lower

Database: Ecology Well Logs
Well Tag #: AES853
Notice of Intent #: D007392
Diameter (in): 10
Well completion: 24-MAR-99
Well Type: Water
Static Water Level: Not Reported
Flow Type: Not Reported
Well Test: Not Reported
Well Log ID: 56543
Project Tag #: Not Reported
Date Received: Not Reported
Casing Depth (ft): 35
Well Owner: TACOMA PUBLIC UTILITIES
Driller #: 2053
Flow Rate (gpm): Not Reported
PSI: Not Reported
Water Reclamation #: 16

G60 NE 1/2 - 1 Mile
Lower

Database: Ecology Well Logs
Well Tag #: AES854
Notice of Intent #: D007392
Diameter (in): 12
Well completion: 24-MAR-99
Well Type: Water
Static Water Level: Not Reported
Flow Type: Not Reported
Well Test: Not Reported
Well Log ID: 56544
Project Tag #: Not Reported
Date Received: Not Reported
Casing Depth (ft): 20
Well Owner: TACOMA PUBLIC UTILITIES
Driller #: 2053
Flow Rate (gpm): Not Reported
PSI: Not Reported
Water Reclamation #: 16
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| Database:          | Water Wells                | PWS ID:        | 54673          |
|--------------------|----------------------------| Source Name:   | WELL #1 AHB700  |
| Source #:          | 01                         | Source Type:   | Ground Water - Well |
| Source Status:     | Inactive                   | Date Source Effective: | 01/01/1970 |
| Source Use:        | Permanent                  | Water Resource Inventory Area: | Skokomish-Dosewallips |
| Date Source Inactive: | 05/03/2004               | Source Susceptibility: | X |
| Well Depth:        | 66                         | Public Water System Group: | A |
| System Name:       | CANAL SIDE RESORT         | Full Time Res Pop: | 10 |
| System Type:       | TNC                        | Total Connections: | 15 |
| Total Population Served: | 16                   | Residential Connection: | 4 |
| PWS Status:        | Inactive                   | Capacity (gpm): | 38 |
| DOE Well Tag:      | Not Reported                | Influenced by Flooding: | Not Reported |
| Influenced by Droughts: | Not Reported               |                |                |
| Influenced by Surface Water: | U                    |                |                |

| Database:          | Ecology Well Logs          | Well Log ID:    | 44020          |
|--------------------|----------------------------| Project Tag #: | Not Reported   |
| Well Tag #:        | Not Reported               | Date Received: | 05-JUN-75      |
| Notice of Intent #:| Not Reported               | Casing Depth (ft): | 164           |
| Diameter (in):     | 6                          | Well Owner:    | ANNA FISCHER   |
| Well completion:   | 24-APR-75                  | Driller #:     | 0477           |
| Well Type:         | Water                      | Flow Rate (gpm): | Not Reported |
| Static Water Level:| Not Reported               | PSI:           | Not Reported   |
| Flow Type:         | Not Reported                | Water Reclamation #: | 16          |
GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

### Map ID
- Database: Ecology Well Logs
- Well Log ID: 856707
- Project Tag #: Not Reported
- Date Received: 27-MAR-13
- Casing Depth (ft): 25
- Well Owner: Skokomish Park | ESA Associates
- Driller #: Not Reported
- Flow Rate (gpm): Not Reported
- PSI: Not Reported
- Water Reclamation #: 16

### Notice of Intent #:
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### Project Tag #:
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### Well Tag #:
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### Well Type:
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### Static Water Level:
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### Flow Type:
- Not Reported

### Well Test:
- Not Reported

### Map ID
- Database: Ecology Well Logs
- Well Log ID: 856705
- Project Tag #: Not Reported
- Date Received: 27-MAR-13
- Casing Depth (ft): 24
- Well Owner: Skokomish Park | ESA Associates
- Driller #: Not Reported
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- Water Reclamation #: 16

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### Flow Type:
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### GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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| Well Tag #: | Not Reported | Well Log ID: | 827847 | Project Tag #: | Not Reported |               |
| Notice of Intent #: | SE46168 | Date Received: | 24-SEP-12 | Casing Depth (ft): | 20 |               |
| Diameter (in): | 3.87 | Well Owner: | Tacoma Power | Drill #: | Not Reported |               |
| Well completion: | 12-SEP-12 | Flow Rate (gpm): | Not Reported | PSI: | Not Reported |               |
| Well Type: | Resource Protection | Water Reclamation #: | 16 |         |               |               |
| Static Water Level: | Not Reported |               |          |               |               |
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| I73    | NNE       | 1/2 - 1 Mile | Lower | Ecology Well Logs | WA WELLS | WALOG2000580544 |
|        |           |          |          |          |               |               |
| Well Tag #: | Not Reported | Well Log ID: | 856703 | Project Tag #: | Not Reported |               |
| Notice of Intent #: | EE04407 | Date Received: | 27-MAR-13 | Casing Depth (ft): | 24 | Skokomish Park | ESA Associates |
| Diameter (in): | 2 | Well Owner: | Skokomish Park | Drill #: | Not Reported |               |
| Well completion: | 22-FEB-13 | Flow Rate (gpm): | Not Reported | PSI: | Not Reported |               |
| Well Type: | Resource Protection | Water Reclamation #: | 16 |         |               |               |
| Static Water Level: | Not Reported |               |          |               |               |
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| Well Test: | Not Reported |               |          |               |               |

| I74    | NNE       | 1/2 - 1 Mile | Lower | Ecology Well Logs | WA WELLS | WALOG2000580543 |
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| Well Tag #: | Not Reported | Well Log ID: | 856701 | Project Tag #: | Not Reported |               |
| Notice of Intent #: | EE04407 | Date Received: | 27-MAR-13 | Casing Depth (ft): | 24 |               |
Well completion: 22-FEB-13
Well Type: Resource Protection
Static Water Level: Not Reported
Flow Type: Not Reported
Well Test: Not Reported
Well Owner: Skokomish Park | ESA Associates
Driller #: Not Reported
Flow Rate (gpm): Not Reported
PSI: Not Reported
Water Reclamation #: 16

Database: Ecology Well Logs
Well Tag #: Not Reported
Notice of Intent #: AE18860
Diameter (in): 3.87
Well completion: 12-SEP-12
Well Type: Decommissioning
Static Water Level: Not Reported
Flow Type: Not Reported
Well Test: Not Reported
Well Log ID: 827849
Project Tag #: Not Reported
Date Received: 24-SEP-12
Casing Depth (ft): 20
Well Owner: Tacoma Power
Driller #: Not Reported
Flow Rate (gpm): Not Reported
PSI: Not Reported
Water Reclamation #: 16

Database: Water Wells
Source #: 01
Source Status: Inactive
Source Use: Permanent
Date Source Inactive: 05/23/1995
Well Depth: 57
System Name: SALTWATER PARK
System Type: TNC
Total Population Served: 210
PWS Status: Inactive
DOE Well Tag: Not Reported
Influenced by Droughts: Not Reported
Influenced by Surface Water: U

PWS ID: 00544
Source Name: WELL #1
Source Type: Ground Water - Well
Date Source Effective: 01/01/1970
Water Resource Inventory Area: Skokomish-Dosewallips
Source Susceptibility: Not Reported
Public Water System Group: A
Full Time Res Pop: 0
Total Connections: 1
Residential Connection: 0
Capacity (gpm): 30
Influenced by Flooding: Not Reported
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<td>DOE Well Tag:</td>
<td>Not Reported</td>
<td>Capacity (gpm):</td>
<td>60</td>
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<td>Influenced by Droughts:</td>
<td>N</td>
<td>Influenced by Flooding:</td>
<td>N</td>
</tr>
<tr>
<td>Influenced by Surface Water:</td>
<td>U</td>
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**Organization ID:** USGS-WA  
**Organization Name:** USGS Washington Water Science Center  
**Monitor Location:** 22N/04W-35N02  
**Type:** Well  
**HUC:** 17110018  
**Drainage Area:** Not Reported  
**Drainage Area Units:** Not Reported  
**Contrib Drainage Area:** Not Reported  
**Contrib Drainage Area Units:** Not Reported  
**Aquifer:** Not Reported  
**Formation Type:** Not Reported  
**Aquifer Type:** Not Reported  
**Construction Date:** 19010101  
**Well Depth:** 450  
**Well Depth Units:** ft  
**Well Hole Depth:** Not Reported  
**Well Hole Depth Units:** Not Reported
AREA RADON INFORMATION

Federal EPA Radon Zone for MASON County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
  Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
  Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 98584
Number of sites tested: 7

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<th>Area</th>
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<th>% &lt; 4 pCi/L</th>
<th>% 4-20 pCi/L</th>
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<tr>
<td>Living Area - 1st Floor</td>
<td>0.257 pCi/L</td>
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<td>Basement</td>
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<td>0%</td>
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TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Ecology
Telephone: 360-407-6121

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

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.
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

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 Wells
Source: Department of Health
Telephone: 360-236-3148
Group A and B well locations.

Water Well Listing
Source: Public Utility District
Telephone: 206-779-7656
A listing of water well locations in Kitsap County.

Ecology Well Logs
Source: Department of Ecology
Telephone: 360-407-7294
Point geodatabase with a record for each Ecology well report. Points are located by quarter quarter section centroid. Points contain all well report types including water wells, resource protection wells, and decommissioned wells.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Listing
Source: Department of Natural Resources
Telephone: 360-902-1450
Locations that represent oil and gas test well sites in Washington State from 1890 to present.

RADON

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

STREET AND ADDRESS INFORMATION

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Appendix B

Historical Aerial Photographs
The EDR Aerial Photo Decade Package
Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR’s professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

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<td>USDA/NAIP</td>
</tr>
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<td>1&quot;=500'</td>
<td>Flight Date: October 25, 1951</td>
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When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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Subject boundary not shown because it exceeds image extent or image is not georeferenced.
Appendix C

Historical Topographic Maps
T3dabas Housing
230 N Herring Road
Shelton, WA 98584

Inquiry Number: 7174191.4
November 09, 2022

EDR Historical Topo Map Report
with QuadMatch™
EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Acorn Environmental were identified for the years listed below. EDR’s Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

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<th>P.O.#</th>
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<td>NA</td>
<td>t3da bas Skokomish HUD Hou</td>
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</table>

Coordinates:

| Latitude: | 47.359892 47° 21' 36" North |
| Longitude: | -123.167903 -123° 10' 4" West |
| UTM Zone: | Zone 10 North |
| UTM X Meters: | 487321.05 |
| UTM Y Meters: | 5245172.53 |
| Elevation: | 275.29' above sea level |

Maps Provided:

- 2020
- 2017
- 2014
- 1985, 1986
- 1952
- 1943

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This EDR Topo Map Report is based upon the following USGS topographic map sheets.

**2020 Source Sheets**

- **Skokomish Valley** 2020
  - 7.5-minute, 24000

- **Hoodsport** 2020
  - 7.5-minute, 24000

**2017 Source Sheets**

- **Skokomish Valley** 2017
  - 7.5-minute, 24000

- **Hoodsport** 2017
  - 7.5-minute, 24000

**2014 Source Sheets**

- **Skokomish Valley** 2014
  - 7.5-minute, 24000

- **Hoodsport** 2014
  - 7.5-minute, 24000

**1985, 1986 Source Sheets**

- **Hoodsport** 1985
  - 7.5-minute, 24000
  - Aerial Photo Revised 1979

- **Skokomish Valley** 1986
  - 7.5-minute, 24000
  - Aerial Photo Revised 1979
Topo Sheet Key
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1952 Source Sheets

Potlatch
1952
15-minute, 62500
Aerial Photo Revised 1937

1943 Source Sheets

POTLATCH
1943
15-minute, 50000
This report includes information from the following map sheet(s).

TP, Skokomish Valley, 2020, 7.5-minute
N, Hoodsport, 2020, 7.5-minute

SITE NAME: T3dabas Housing
ADDRESS: 230 N Herring Road
Shelton, WA 98584
CLIENT: Acorn Environmental
This report includes information from the following map sheet(s).

TP, Skokomish Valley, 2017, 7.5-minute
N, Hoodsport, 2017, 7.5-minute

SITE NAME: T3dabas Housing
ADDRESS: 230 N Herring Road
Shelton, WA 98584
CLIENT: Acorn Environmental
This report includes information from the following map sheet(s).

TP, Skokomish Valley, 2014, 7.5-minute
N, Hoodsport, 2014, 7.5-minute

SITE NAME: T3dabas Housing
ADDRESS: 230 N Herring Road
         Shelton, WA 98584
CLIENT: Acorn Environmental
This report includes information from the following map sheet(s).

- TP, Skokomish Valley, 1986, 7.5-minute
- N, Hoodsport, 1985, 7.5-minute

**SITE NAME:** T3dabas Housing

**ADDRESS:** 230 N Herring Road
Shelton, WA 98584

**CLIENT:** Acorn Environmental
This report includes information from the following map sheet(s).

SITE NAME: T3dabas Housing
ADDRESS: 230 N Herring Road
          Shelton, WA 98584
CLIENT: Acorn Environmental
This report includes information from the following map sheet(s).

SITE NAME: T3dabas Housing
ADDRESS: 230 N Herring Road
          Shelton, WA 98584
CLIENT: Acorn Environmental
Appendix D
Certified Sanborn Map Report
T3dabas Housing
230 N Herring Road
Shelton, WA 98584

Inquiry Number: 7174191.3
November 09, 2022
The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Acorn Environmental were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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:**

**Certification #**  D58B-4975-87D9  
**PO #**  NA  
**Project**  t3da bas Skokomish HUD Housing

**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.

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Appendix E
EDR City Directory
Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.
DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

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### TARGET PROPERTY STREET

230 N Herring Road  
Shelton, WA 98584

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FINDINGS

CROSS STREETS

No Cross Streets Identified
Appendix F

Resumes
RYAN SAWYER, AICP
PRINCIPAL | PROJECT DIRECTOR

Ryan Sawyer is a Project Director with 17 years of experience preparing environmental analysis reports in compliance with National Environmental Policy Act (NEPA), ASTM E-1527, and related environmental laws and regulations. Ms. Sawyer specializes in the preparation of environmental studies for Native American tribal governments, and in particular, the preparation of NEPA compliance documents for fee-to-trust economic development projects. Her knowledge of NEPA, BIA NEPA procedures, and the expectations of staff at the BIA Regional Offices has led to a successful fee-to-trust outcome for many of her clients, including but not limited to the Table Mountain Rancheria, Tule River Tribe, Redding Rancheria and others.

RELEVANT PROJECT EXPERIENCE
Ms. Sawyer currently serves as Project Director on various NEPA documents:
- Confidential Fee-to-Trust Development Project EIS and Phase I, WA
- Confidential Fee-to-Trust Tribal Government and Mixed-Use Non-Gaming Project EA, WA
- Confidential Fee-to-Trust Project EA, northern CA
- Table Mountain Rancheria, Various Fee-to-trust Projects and Phase Is, Categorical Exclusions, Fresno County, CA
- Redding Rancheria Fee-to-Trust Project EIS and Phase I, Redding CA
- Spokane Tribe of Indians Fee-Trust Project Categorical Exclusion and Phase I, WA

Prior to the formation of Acorn Environmental, Ms. Sawyer served as the primary author and project manager for more than 100 environmental impact analysis and compliance projects, including, but not limited to, the following:
- Tule River Tribe FTT Project EIS and Phase I, Porterville, CA
- Tule River Tribe FTT Housing Project EA, Tulare County, CA
- Chicken Ranch Rancheria FTT Projects (various), CA
- San Pasqual FTT Projects (various), CA
- Pauma Band 65-acre FTT Project, CA
- Tachi-Yokut Tribe FTT Projects (various), CA
- Chickasaw Nation FTT EA, Carter County, OK
- Chickasaw Nation FTT EA, Marshall County, OK
- Ho-Chunk Beloit FTT EIS, City of Beloit, WI
- Muckleshoot Emerald Downs Fee-to-trust EA, Kings County, WA

YEARS OF EXPERIENCE
Over 17 Years

EDUCATION
University of California, Santa Barbara; Bachelor of Arts
Major in Environmental Studies and Geography

KEY QUALIFICATIONS
- Meets the definition of an Environmental Professional per DOI Regulations
- Led the preparation of environmental documents for more than 30 Native American Tribes, various federal, state, and local agencies, and private developers across the United States.

CERTIFICATIONS
- American Institute Certified Planners (AICP)
DAVID SAWYER
ENVIRONMENTAL ANALYST

Mr. Sawyer is an environmental specialist experienced in writing SWPPPs and conducting groundwater and surface water monitoring and Phase I Environmental Site Assessments pursuant to ASTM E-1527 standards. Mr. Sawyer is experienced with state and federal general permit requirements. Mr. Sawyer also serves as an environmental analyst on various projects with a variety of local, state, and federal agencies, as well as an array of private clients. In addition to his regulatory permitting experience, areas of expertise include compiling public and agency input, the drafting and analysis of project alternatives, and conducting land use and growth inducing impact analysis.

RELEVANT PROJECT EXPERIENCE

- Easterly Wastewater Treatment Plant Tertiary Facilities Project EIR & CEQA-Plus, City of Vacaville, Solano County, CA
- Enterprise Rancheria EIR, Yuba County, CA
- Graton Rancheria Hotel/Casino Resort EIS, Sonoma County, CA
- North Fork Rancheria EIS, Madera County, CA
- Russian River Equalization Basin Storage Project EIR, Sonoma County Water Agency, Sonoma County, CA
- Russian River Irrigation Expansion and Beneficial Reuse Project EIR, Sonoma County Water Agency, Sonoma County, CA
- San Benito County Water District Recycled Water Project Supplement to EIR, City of Hollister, San Benito County, CA
- Station 6S Transit Village EIR, City of Sacramento, Sacramento County, CA
- Rumsey Rancheria Waster and Wastewater Monitoring Plan, Yolo County, CA
- Sugarloaf Ranch Phase I ESA, City of Woodland, CA
- Thunder Valley Casino Tribal EIR, Placer County, CA
- Cache Creek Casino Resort SWPPP, USEPA, Yolo County, CA
- Cache Creek Golf Course SWPPP, SWRCB, Yolo County, CA
- Gun Lake SWPPP, USEPA, Wayland Township, MI
- Thlo Fire Road Improvement Project SWPPP, SWRCB, Yolo County, CA
- Thlo Tribal Ranch Earth Disposal SWPPP, SWRCB, Yolo County, CA
- Thunder Valley Casino Expansion/UAIC SWPPP, City of Lincoln, Placer County, CA
- Ernst Property Phase I ESA, Sonoma County, CA
- Jordan Vineyard Phase I ESA, Sonoma County, CA
- 18 East Fulton Road Phase I ESA, Sonoma County, CA
- 1144 Star View Road Phase I ESA, Sonoma County, CA
- Pauma Band of Luiseno Indians Phase I ESA, San Diego County, CA
- 1398 Gumview Road Phase I ESA, Sonoma County, CA
- 1486 Gumview Road Phase I ESA, Sonoma County, CA
- Samish Indian Nation Phase I ESA, City of Anacortes, WA

YEARS OF EXPERIENCE
Over 7 Years

EDUCATION
California State University, Sacramento
Major in Environmental Studies;
Minor in Geography

KEY QUALIFICATIONS
- Practiced with preparing NEPA compliance documents and FTT applications.
- Meets the definition of an Environmental Professional per DOI Regulations.
- +7 years experience in technical writing and analyzing numerous environmental issue areas.
Appendix G

FEMA Flood Map
Appendix H

Questionnaires
Phase I Environmental Site Assessment Questionnaire

The following questionnaire is required by the ASTM Standard E 1527-13, which adheres to the All Appropriate Inquiries (AAI) Rule (United States Environmental Protection Agency) (40 CFR 312).

As defined by ASTM, the User of the report is the "party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The user has specific obligations for completing a successful application of this practice."

<table>
<thead>
<tr>
<th>Property Address</th>
<th>Various T3ba'das PH1 Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property City, State, Zip</td>
<td>Skokomish Nation, WA. 98584</td>
</tr>
</tbody>
</table>

**QUESTIONNAIRE**

☑ Yes ☐ No

Are you the current owner of the property?

If Yes, please indicate the length of ownership or date of purchase.

Since time immemorial.

☑ Yes ☐ No

Are you aware of any environmental liens against the property?

If Yes, please explain.

☑ Yes ☐ No

Are you aware of any Activity Use Liens (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the property? If yes, please explain.

The land is held in Trust by the United States of America for the interest of the Skokomish Indian Tribe.

☑ Yes ☐ No

Do you have any specialized knowledge or experience related to the property or nearby properties? (i.e same line of business). If yes, please explain.

The properties to North, East and South are allotments owned by the tribe and tribal members. To the West, that property is owned private timber company.
☐ Yes  ☑ No  Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If no, please explain.
N/A

☐ Yes  ☑ No  Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? If yes, please explain.

☐ Yes  ☑ No  Do you know the past uses of the property?
N/A

☐ Yes  ☑ No  Do you know of specific chemicals that are present or once were present at the property? If yes, please explain.

☐ Yes  ☑ No  Do you know of spills or other chemicals releases that have taken place or impacted the property? If yes, please explain.

☐ Yes  ☑ No  Do you know of any environmental cleanups that have taken place at the property? If yes, please explain.

☐ Yes  ☑ No  Based on your knowledge and experience in relation to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property? If yes, please explain.

☑ Yes  ☐ No  Do you have any other previously prepared environmental documents for the property? If yes, please explain and/or provide a copy to Acom.

1. SEPA checklist 2004
2. EA Phase 1 Waterman Housing Development
3. EA up-date 2011
4. HUD section 184 loan application Skokomish Tribe Waterman "T3ba' das Housing Development EA checklist 2020"
5. Endangered Species Letter 2006
As part of this study, which of the following are you providing?

1. Previous environmental site assessment reports □ Yes √ No
2. Environmental compliance audit reports □ Yes √ No
3. Environmental permits (including but not limited to solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits) □ Yes √ No
4. Registrations for underground and aboveground storage tanks □ Yes √ No
5. Registrations for underground injection systems □ Yes √ No
6. Material safety data sheets □ Yes √ No
7. Community Right-to-Know plan □ Yes √ No
8. Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans; etc. □ Yes √ No
9. Reports regarding hydrogeologic conditions on the property or surrounding area □ Yes √ No
10. Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property □ Yes √ No
11. Hazardous waste generator notices or reports □ Yes √ No
12. Geotechnical studies □ Yes √ No
13. Risk assessments □ Yes √ No
14. Recorded Activity and Use Limitations (AULs) □ Yes √ No

Please contact us if you have any questions regarding these ASTM requirements.

Please return the completed document to Acorn Environmental via email to dsawyer@acorn-env.com.

Completed by: Brent J Kellogg
Signature: [Signature]
Title: Construction Manager
Company: Skokomish Tribe
Relationship to site: Project Coordinator
Date: 12/14/2022
April 4, 2023

Hugh Morrison
Regional Director, Pacific Region
United States Fish and Wildlife Service
Pacific Region
911 NE 11th Avenue
Portland, OR 97232

Subject: No Effect Determination Letter; Skokomish Tribal Housing Project (t3ba’das Housing Project)

Dear Mr. Morrison:

The Skokomish Indian Tribe (Tribe) is proposing to implement the t3ba’das Housing Project (Project), consisting of the proposed construction of seven single-family homes within an existing residential development on the northern portion of the Tribe’s Reservation in unincorporated Mason County. The Tribe has applied for Project funding through the U.S. Department of Housing and Urban Development (HUD). The Tribe is the Responsible Entity for HUD under 24 CFR Part 58 for compliance with the National Environmental Policy Act (NEPA) and related environmental regulations, including the Endangered Species Act (ESA) and the Magnuson-Stevens Fishery Conservation and Management Act (MSA). The purpose of this letter is to notify you that the Tribe, as the Responsible Agency for ESA and MSA compliance, has determined that the Project will result in No Effect to federally-listed species or critical habitat protected under the ESA, and will result in No Effect to essential fish habitat (EFH) under the MSA.

Project Description

Regional access to the Project site is provided by U.S. Highway 101. From U.S. Highway 101, the Project site is accessible from Stevens Road and North Herring Road. A regional map, topographic map, and aerial map of the Project site, along with a site plan, are included in the attachments to this letter. The Project includes the construction of seven single-family homes in an existing Tribal housing development where housing lots have been graded and roadway and utility infrastructure has been constructed to serve the housing lots. The proposed home sites are shown as Lots 6, 8, 12, 13, 15, 16 and 18. Retaining walls would be constructed in multiple locations next to proposed homes as indicated on the site plan. An existing stormwater detention basin would be expanded as part of the Project. All stormwater from the seven housing lots would be collected and stored in the expanded stormwater detention basin. Because the lots are already graded and utilities installed, no mass grading or off-site infrastructure improvements would be needed. Construction is anticipated to start in Spring of 2023.
Description of the Action Area

The Project site is partially developed with nine single-family residences, a network of paved access roads and underground utilities, one auxiliary building housing a water treatment system, two groundwater wells, and a stormwater detention basin. Three of the residential units are manufactured homes, which were added in 2022 and are not visible on the aerial photograph. The Project site is slightly sloped towards the existing stormwater detention basin, with a high point of approximately 290 feet above mean sea level (amsl) along the southeastern boundary and a low point of approximately 245 feet amsl along the northern boundary. The stormwater detention basin fills in response to storm events and is isolated from other aquatic features. The nearest aquatic features to the Project site are unnamed drainages approximately 800 feet north and 350 feet south of Project site boundary.

Undeveloped areas with dense coniferous forests are located north, south, and west of the Project site. To the east, is the Tribe’s wastewater treatment plant and paved roadways connecting to U.S. Highway 101 and Potlatch State Park.

Federal Listed Species

The USFWS Information for Planning and Conservation (IPaC) tool identified six federally-listed species that should be considered for their potential to occur in the Project area (see attachment). These species are Marbled Murrelet (threatened), Yellow-billed Cuckoo (threatened), Bull Trout (threatened), Dolly Varden (proposed threatened), Monarch Butterfly (candidate), and Taylor’s Checkerspot Butterfly (endangered). The Project site consists of graded residential lots, developed roadways and a stormwater detention basin. These disturbed and urbanized habitat types do not provide suitable habitat for the above-listed species, which require undisturbed grasslands, riparian / riverine habitat, or estuarine / marine habitat. There are no known populations of these listed species within the Project site, so no direct impacts to listed species will occur with project implementation. Furthermore, indirect impacts are unlikely because the Project site is already developed with residences, natural habitats are disturbed and fragmented, and roads are present. Because the Project site’s stormwater is detained in a basin, construction-related ground disturbance will not affect downstream waterbodies. There is the potential that bird species could temporarily use trees for foraging or nesting within the stormwater detention area or in adjacent forested areas, and could be disturbed by construction activities that create noise or vibration. Note that no trees need to be felled for project implementation. In order to avoid potential impacts to both migratory birds and federally-listed bird species, a preconstruction bird survey would be completed prior to construction within the nesting bird season and avoidance measures implemented as required. Therefore, the Project would result in no effect to the above listed species.

Critical Habitat

Critical habitat for five listed species (Chinook Salmon [Puget Sound ESU], chum Salmon [Hood Canal summer-run ESU], bull trout, yelloweye rockfish [Puget Sound-Georgia Basin DPS]), and Bocaccio (Puget Sound-Georgia Basin DPS) are located approximately 0.5 miles from the Project site in Annas Bay / Hood Channel. Stormwater from the Project site is currently collected and piped to a stormwater detention basin where it is fully contained and prevented from affecting fish habitat downstream. This stormwater detention basin will be expanded to provide additional capacity and continue to fully contain stormwater from the Project site. The Project does not include in-water work, construction activities will be confined to the Project site and require only minor grading, and no downstream impacts will occur. Thus, no adverse effects to fish species and critical habitat would occur.
EFH Assessment

The MSA mandates that NMFS must identify EFH for federally managed marine fish. Federal agencies are required to consult with NMFS on all activities, or proposed activities, authorized, funded, or undertaken by the agency that may adversely affect EFH. The Pacific Fishery Management Council (PFMC) has designated EFH for the Pacific salmon fishery, federally managed ground fishes, and coastal pelagic fisheries.

The Project Site does not contain aquatic features and thus cannot sustain fisheries or be defined as EFH; however, it is identified as within a watershed which affects EFH for Pink salmon, Chinook salmon, and Coho salmon. EFH for groundfish and coastal pelagic species is located approximately 0.5 miles east of the Project site in Hood Canal.

It has been determined that the Project will not adversely affect EFH for the Pacific coast salmon fishery. This determination is justified based on the following rationale:

- The Project does not include in-water work and requires only minor ground disturbance and no significant grading.
- All work will be limited to the Project site, which does not contain fisheries habitat or any channels.
- Stormwater from the Project site is currently, and will continue to be, collected, and treated onsite with no effects to downstream waterways.

Conclusion

This effects analysis satisfies the Tribe’s responsibilities under 24 CFR Part 58, Section 7(c) of the Endangered Species Act and the MSA.

If you require additional information or clarification regarding this project, please contact me at ipavel@skokomish.org or 360-877-5213 extension 2206.

Sincerely,

Joseph Pavel
Director
Skokomish Indian Tribe Natural Resources Department

Attachments:

Site Location Maps, Site Plan, Species List
FIGURE 1
REGIONAL LOCATION

Legend
☆ Project Site

Source: ESRI World Topographic Map
In Reply Refer To: Project Code: 2023-0060750
Project Name: Skokomish Tribal Housing (t3ba’das Housing Project)

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological
evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: Responsibilities of Federal Agencies to Protect Migratory Birds, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.
Attachment(s):
  - Official Species List
OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Washington Fish And Wildlife Office
510 Desmond Drive Se, Suite 102
Lacey, WA 98503-1263
(360) 753-9440
PROJECT SUMMARY

Project Code: 2023-0060750
Project Name: Skokomish Tribal Housing (t3ba’das Housing Project)
Project Type: Residential Construction

Project Description: The Skokomish Indian Tribe (Tribe) is proposing to construct a tribal housing project, known as the t3ba’das Housing Project (Project), consisting of the construction of seven single-family homes within an existing residential development on the northern portion of the Skokomish Indian Tribe’s Reservation in unincorporated Mason County. The Tribe has applied for Project funding through the U.S. Department of Housing and Urban Development (HUD). The Project is the construction of seven single-family homes in an existing Tribal housing development where housing lots have been graded and roadway and utility infrastructure has been constructed to serve the housing lots. The proposed homes are shown as Lots 6, 8, 12, 13, 15, 16 and 18. Retaining walls would be constructed in multiple locations next to proposed homes as indicated on the site plan. An existing stormwater collection pond would be expanded as part of the Project. All stormwater from the seven housing lots would be collected and stored in the expanded stormwater collection pond.

Project Location:
The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@47.3603863,-123.16722019313141,14z

Counties: Mason County, Washington
ENDANGERED SPECIES ACT SPECIES

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries\(^1\), as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. **NOAA Fisheries**, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### BIRDS

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marbled Murrelet <em>Brachyramphus marmoratus</em></td>
<td>Threatened</td>
</tr>
<tr>
<td>Population: U.S.A. (CA, OR, WA)</td>
<td></td>
</tr>
<tr>
<td>There is <strong>final</strong> critical habitat for this species. Your location does not overlap the critical habitat.</td>
<td></td>
</tr>
<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/4467">https://ecos.fws.gov/ecp/species/4467</a></td>
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<tr>
<td>Yellow-billed Cuckoo <em>Coccyzus americanus</em></td>
<td>Threatened</td>
</tr>
<tr>
<td>Population: Western U.S. DPS</td>
<td></td>
</tr>
<tr>
<td>There is <strong>final</strong> critical habitat for this species. Your location does not overlap the critical habitat.</td>
<td></td>
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<tr>
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### FISHES

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<tr>
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<th>STATUS</th>
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</thead>
<tbody>
<tr>
<td>Bull Trout <em>Salvelinus confluentus</em></td>
<td>Threatened</td>
</tr>
<tr>
<td>Population: U.S.A., conterminous, lower 48 states</td>
<td></td>
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<tr>
<td>There is <strong>final</strong> critical habitat for this species. Your location does not overlap the critical habitat.</td>
<td></td>
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<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/8212">https://ecos.fws.gov/ecp/species/8212</a></td>
<td></td>
</tr>
<tr>
<td>Dolly Varden <em>Salvelinus malma</em></td>
<td>Proposed</td>
</tr>
<tr>
<td>No critical habitat has been designated for this species.</td>
<td></td>
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<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/1008">https://ecos.fws.gov/ecp/species/1008</a></td>
<td></td>
</tr>
<tr>
<td>Similarity of Appearance (Threatened)</td>
<td>Proposed</td>
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INSECTS

<table>
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<th>STATUS</th>
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</thead>
<tbody>
<tr>
<td>Monarch Butterfly Danaus plexippus</td>
<td>Candidate</td>
</tr>
<tr>
<td>No critical habitat has been designated for this species.</td>
<td></td>
</tr>
<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a></td>
<td></td>
</tr>
<tr>
<td>Taylor's (=whulge) Checkerspot Euphydryas editha taylori</td>
<td>Endangered</td>
</tr>
<tr>
<td>There is final critical habitat for this species. Your location does not overlap the critical habitat.</td>
<td></td>
</tr>
<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/5907">https://ecos.fws.gov/ecp/species/5907</a></td>
<td></td>
</tr>
</tbody>
</table>

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE’S JURISDICTION.
IPAC USER CONTACT INFORMATION
Agency: Acorn Environmental
Name: G.O. Graening
Address: 520 Wallingford Lane
City: Folsom
State: CA
Zip: 95630
Email: ggraening@gmail.com
Phone: 9164525442
SKOKOMISH TRIBE

t3ba'das HOUSING PROJECT

= Proposed Building Sites

Stormwater Collection Pond Expansion

Construct Retaining Wall

LEGEND:

- Proposed Building Sites
- Stormwater Collection Pond Expansion
- Construct Retaining Wall

GENERAL NOTE:

- Stormwater Collection Ponds are proposed on easement to the east.
- Retaining wall to be constructed in retaining wall areas.
- Stormwater Pond Expansion:
  - Proposed for the Stormwater Pond Expansion.

Site Conditions:

- Stormwater Pond Expansion:
  - Stormwater Pond Expansion:
  - Proposed for the Stormwater Pond Expansion.

CONSTRUCTION SET

C1.3
April 4, 2023

Scott Rumsey, Ph.D.
Regional Administrator (acting)
National Oceanic and Atmospheric Administration
West Coast Regional Office
1201 Northeast Lloyd
Portland, OR 97232

Subject: No Effect Determination Letter; Skokomish Tribal Housing Project (t3ba’das Housing Project)

Dear Dr. Rumsey:

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Undeveloped areas with dense coniferous forests are located north, south, and west of the Project site. To the east, is the Tribe’s wastewater treatment plant and paved roadways connecting to U.S. Highway 101 and Potlatch State Park.

Federal Listed Species

The USFWS Information for Planning and Conservation (IPaC) tool identified six federally-listed species that should be considered for their potential to occur in the Project area (see attachment). These species are Marbled Murrelet (threatened), Yellow-billed Cuckoo (threatened), Bull Trout (threatened), Dolly Varden (proposed threatened), Monarch Butterfly (candidate), and Taylor’s Checkerspot Butterfly (endangered). The Project site consists of graded residential lots, developed roadways and a stormwater detention basin. These disturbed and urbanized habitat types do not provide suitable habitat for the above-listed species, which require undisturbed grasslands, riparian / riverine habitat, or estuarine / marine habitat. There are no known populations of these listed species within the Project site, so no direct impacts to listed species will occur with project implementation. Furthermore, indirect impacts are unlikely because the Project site is already developed with residences, natural habitats are disturbed and fragmented, and roads are present. Because the Project site’s stormwater is detained in a basin, construction-related ground disturbance will not affect downstream waterbodies. There is the potential that bird species could temporarily use trees for foraging or nesting within the stormwater detention area or in adjacent forested areas, and could be disturbed by construction activities that create noise or vibration. Note that no trees need to be felled for project implementation. In order to avoid potential impacts to both migratory birds and federally-listed bird species, a pre-construction bird survey would be completed prior to construction within the nesting bird season and avoidance measures implemented as required. Therefore, the Project would result in no effect to the above listed species.

Critical Habitat

Critical habitat for five listed species (Chinook Salmon [Puget Sound ESU], chum Salmon [Hood Canal summer-run ESU], bull trout, yelloweye rockfish [Puget Sound-Georgia Basin DPS]), and Bocaccio [Puget Sound-Georgia Basin DPS]) are located approximately 0.5 miles from the Project site in Annas Bay / Hood Canal. Stormwater from the Project site is currently collected and piped to a stormwater detention basin where it is fully contained and prevented from affecting fish habitat downstream. This stormwater detention basin will be expanded to provide additional capacity and continue to fully contain stormwater from the Project site. The Project does not include in-water work, construction activities will be confined to the Project site and require only minor grading, and no downstream impacts will occur. Thus, no adverse effects to fish species and critical habitat would occur.
EFH Assessment

The MSA mandates that NMFS must identify EFH for federally managed marine fish. Federal agencies are required to consult with NMFS on all activities, or proposed activities, authorized, funded, or undertaken by the agency that may adversely affect EFH. The Pacific Fishery Management Council (PFMC) has designated EFH for the Pacific salmon fishery, federally managed ground fishes, and coastal pelagic fisheries.

The Project Site does not contain aquatic features and thus cannot sustain fisheries or be defined as EFH; however, it is identified as within a watershed which affects EFH for Pink salmon, Chinook salmon, and Coho salmon. EFH for groundfish and coastal pelagic species is located approximately 0.5 miles east of the Project site in Hood Canal.

It has been determined that the Project will not adversely affect EFH for the Pacific coast salmon fishery. This determination is justified based on the following rationale:

- The Project does not include in-water work and requires only minor ground disturbance and no significant grading.
- All work will be limited to the Project site, which does not contain fisheries habitat or any channels.
- Stormwater from the Project site is currently, and will continue to be, collected, and treated onsite with no effects to downstream waterways.

Conclusion

This effects analysis satisfies the Tribe's responsibilities under 24 CFR Part 58, Section 7(c) of the Endangered Species Act and the MSA.

If you require additional information or clarification regarding this project, please contact me at jpavel@skokomish.org or 360-877-5213 extension 2206.

Sincerely,

Joseph Pavel, Director
Skokomish Indian Tribe Natural Resources Department

Attachments:

Site Location Maps, Site Plan, Species List
FIGURE 1
REGIONAL LOCATION

Legend

Project Site

Source: ESRI World Topographic Map
Legend

Project Site

Source: ESRI World Imagery

FIGURE 3
AERIAL PHOTOGRAPH
In Reply Refer To: Project Code: 2023-0060750
Project Name: Skokomish Tribal Housing (t3ba’das Housing Project)

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological
evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: Responsibilities of Federal Agencies to Protect Migratory Birds, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.
Attachment(s):
  - Official Species List
OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Washington Fish And Wildlife Office
510 Desmond Drive Se, Suite 102
Lacey, WA 98503-1263
(360) 753-9440
PROJECT SUMMARY

Project Code: 2023-0060750
Project Name: Skokomish Tribal Housing (t3ba’das Housing Project)
Project Type: Residential Construction
Project Description: The Skokomish Indian Tribe (Tribe) is proposing to construct a tribal housing project, known as the t3ba’das Housing Project (Project), consisting of the construction of seven single-family homes within an existing residential development on the northern portion of the Skokomish Indian Tribe’s Reservation in unincorporated Mason County. The Tribe has applied for Project funding through the U.S. Department of Housing and Urban Development (HUD). The Project is the construction of seven single-family homes in an existing Tribal housing development where housing lots have been graded and roadway and utility infrastructure has been constructed to serve the housing lots. The proposed homes are shown as Lots 6, 8, 12, 13, 15, 16 and 18. Retaining walls would be constructed in multiple locations next to proposed homes as indicated on the site plan. An existing stormwater collection pond would be expanded as part of the Project. All stormwater from the seven housing lots would be collected and stored in the expanded stormwater collection pond.

Project Location:
The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@47.3603863,-123.16722019313141,14z

Counties: Mason County, Washington
ENDANGERED SPECIES ACT SPECIES

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries\(^1\), as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. **NOAA Fisheries**, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

---

### BIRDS

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
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<tbody>
<tr>
<td>Marbled Murrelet <em>Brachyramphus marmoratus</em></td>
<td>Threatened</td>
</tr>
<tr>
<td>Population: U.S.A. (CA, OR, WA)</td>
<td></td>
</tr>
<tr>
<td>There is <strong>final</strong> critical habitat for this species. Your location does not overlap the critical habitat.</td>
<td></td>
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<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/4467">https://ecos.fws.gov/ecp/species/4467</a></td>
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<tr>
<td>Yellow-billed Cuckoo <em>Coccyzus americanus</em></td>
<td>Threatened</td>
</tr>
<tr>
<td>Population: Western U.S. DPS</td>
<td></td>
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<tr>
<td>There is <strong>final</strong> critical habitat for this species. Your location does not overlap the critical habitat.</td>
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<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/3911">https://ecos.fws.gov/ecp/species/3911</a></td>
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### FISHES

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<th>STATUS</th>
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<tr>
<td>Bull Trout <em>Salvelinus confluentus</em></td>
<td>Threatened</td>
</tr>
<tr>
<td>Population: U.S.A., conterminous, lower 48 states</td>
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<tr>
<td>There is <strong>final</strong> critical habitat for this species. Your location does not overlap the critical habitat.</td>
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<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/8212">https://ecos.fws.gov/ecp/species/8212</a></td>
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<tr>
<td>Dolly Varden <em>Salvelinus malma</em></td>
<td>Proposed</td>
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<td>No critical habitat has been designated for this species.</td>
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<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/1008">https://ecos.fws.gov/ecp/species/1008</a></td>
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# INSECTS

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<tbody>
<tr>
<td><strong>Monarch Butterfly Danaus plexippus</strong></td>
<td>Candidate</td>
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<tr>
<td>No critical habitat has been designated for this species.</td>
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<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a></td>
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<tr>
<td><strong>Taylor's (=whulge) Checkerspot Euphydryas editha taylori</strong></td>
<td>Endangered</td>
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<tr>
<td>There is final critical habitat for this species. Your location does not overlap the critical habitat.</td>
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</tr>
<tr>
<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/5907">https://ecos.fws.gov/ecp/species/5907</a></td>
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</table>

# CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.
IPAC USER CONTACT INFORMATION
Agency: Acorn Environmental
Name: G.O. Graening
Address: 520 Wallingford Lane
City: Folsom
State: CA
Zip: 95630
Email: ggraening@gmail.com
Phone: 9164525442
To: Jennifer Wade, Project Director / Acorn Environmental  
From: Kris Miller Skokomish Tribal Historic Preservation  
RE: Skokomish Housing Project Cultural Resource Report  
Date: April 19, 2023  

Ms. Wade, I have reviewed the Cultural Resource work conducted by Ms. Charlene Gross in regards to the Skokomish Housing development proposal located on the Skokomish reservation. The THPO office concurs with the finding of No Affect to Historic Properties.

If you have any further question, please feel free to contact me at shlanay1@skokomish.org or 360-426-4232 X 2015.

Sincerely,

Kris Miller  
Skokomish Tribal Historic Preservation  
360-426-4232 x 2015  
Shlanay1@skokomish.org
Airport Search

1. Tell us about a nearby place

Indicating one of the choices below is enough

- A city, town, or zip code: 
  Example: Boston or Green Bay, WI or 90210

- An airport identifier: 

- Geographic coordinates:
  - Latitude: 47.3598 North
  - Longitude: -123.1679 West
  Example: 43 or 43-12-19 or 43.20528

2. Tell us about the airfields you are looking for

Suitable types of fields:
  - (Check at least one)
    - Airports
    - Balloonports
    - Gliderports
    - Heliports
    - Seaplane bases
    - Ultralight Flightparks

Instrument approaches
  - Do you need instrument approaches?
    - None needed

Instrument approaches
  - Do you need instrument approaches?
    - None needed

Runway characteristics:
  - Enter, or leave blank if you don't care
    - Length: at least [ ] ft.
    - Paved? [ ] (check if runway must be paved)

Fuel types:
  - Not needed
  - 100LL AvGas
  - 80/87 AvGas
  - Automotive (Mogas)
  - Jet A
  - Jet B

Only where fuel prices known

3. Where do you want to search?

Between [ ] and [ ] nautical miles

Search for airfields in this vicinity
# Airport Search Results

5 airports found

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<th>ID</th>
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<th>AIRPORT NAME</th>
<th>WHERE</th>
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<tr>
<td>SHN</td>
<td>SHELTON, WA</td>
<td>SANDERSON FIELD AIRPORT</td>
<td>7.6 nm S</td>
</tr>
<tr>
<td>WT77</td>
<td>VAUGHN, WA</td>
<td>ROCKY BAY AIRPORT</td>
<td>15.4 nm E</td>
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<tr>
<td>WN47</td>
<td>MC CLEARY, WA</td>
<td>BEAR VALLEY SKYRANCH AIRPORT</td>
<td>17.2 nm SSW</td>
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<td>PWT</td>
<td>BREMERTON, WA</td>
<td>BREMERTON NTL AIRPORT</td>
<td>18.1 nm ENE</td>
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<tr>
<td>00WA</td>
<td>LONGBRANCH, WA</td>
<td>HOWELL AIRPORT</td>
<td>19.5 nm SE</td>
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Coastal Barrier Resources

Introduction

The Coastal Barrier Resources Act (CBRA) of 1982 designated relatively undeveloped coastal barriers along the Atlantic and Gulf coasts as part of the John H. Chafee Coastal Barrier Resources System (CBRS) and made these areas ineligible for most new Federal expenditures and financial assistance. The Coastal Barrier Improvement Act (CBIA) of 1990 reauthorized the CBRA and expanded the CBRS to include undeveloped coastal barriers along the Florida Keys, Great Lakes, Puerto Rico, and U.S. Virgin Islands.

There are a total of 584 system units, encompassing approximately 1.3 million acres of land and associated aquatic habitat. The system units are generally comprised of private lands that were relatively undeveloped at the time of their designation within the CBRS. The boundaries of these units are generally intended to follow geomorphic, development, or cultural features.

The law encourages the conservation of hurricane-prone, biologically rich coastal barriers by restricting Federal expenditures that encourage development. HUD financial assistance may not be used for most activities in CBRS units.

HUD Guidance

Is the project located in a Coastal Barrier Resource System (CBRS) unit? With very limited exceptions, federal assistance is not allowed for projects in a CBRS unit. Federal monies can be spent within CBRS units only for certain exempted activities (e.g., a nature trail) after consultation with the FWS (see 16 USC 3505 for exceptions to limitations on expenditures).

Compliance and Documentation

The environmental review record should contain one of the following:

- A general location map establishing there are no Coastal Barrier Resource System units in the city or county
- A map issued by the FWS or FEMA (or from their website) showing that the proposed project is not located within a designated Coastal Barrier Resource System Unit. The FEMA map panel number must be cited within the Environmental Review Record
- Approval of the project from the FWS, including all prior correspondence

View Coastal Barrier Resources - Worksheet (/resources/documents/Coastal-Barrier-Resources-Worksheet.docx).

View Coastal Barrier Resources - Partner Worksheet (/resources/documents/Coastal-Barrier-Resources-Partner-Worksheet.docx).
Statute

Resources
WISER: Water Elements Online Module (https://www.hudexchange.info/trainings/wiser/)
HUD’s Guidelines for CBRA Compliance (/resource/3194/coastal-barrier-resources-act-guidelines-for-compliance/)
Fish and Wildlife Service’s CBRA Web Page for Guidance (http://www.fws.gov/CBRA/)
Fish and Wildlife Service’s CBRA Mapper (http://www.fws.gov/CBRA/Maps/Mapper.html)
Fish and Wildlife Service’s Consistency Consultations (https://www.fws.gov/cbra/Consultations.html)

Federal Related Laws and Authorities
Air Quality (/environmental-review/air-quality)
Airport Hazards (/environmental-review/airport-hazards)
Coastal Barrier Resources (/environmental-review/coastal-barrier-resources)
Coastal Zone Management (/environmental-review/coastal-zone-management)
Environmental Justice (/environmental-review/environmental-justice)
Endangered Species (/environmental-review/endangered-species)
Explosive and Flammable Facilities (/environmental-review/explosive-and-flammable-facilities)
Farmlands Protection (/environmental-review/farmlands-protection)
Flood Insurance (/environmental-review/flood-insurance)
Floodplain Management (/environmental-review/floodplain-management)
Historic Preservation (/environmental-review/historic-preservation)
Noise Abatement and Control (/environmental-review/noise-abatement-and-control)
Site Contamination (/environmental-review/site-contamination)
Sole Source Aquifers (/environmental-review/sole-source-aquifers)
Wetlands Protection (/environmental-review/wetlands-protection)
Wild and Scenic Rivers (/environmental-review/wild-and-scenic-rivers)
Washington Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

Data is current as of November 30, 2022

Listed by County, NAAQS, Area. The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m$^3$) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

<table>
<thead>
<tr>
<th>County</th>
<th>NAAQS</th>
<th>Area Name</th>
<th>Nonattainment in Year</th>
<th>Redesignation to Maintenance</th>
<th>Classification</th>
<th>Whole or Part County</th>
<th>Population (2010)</th>
<th>State/County FIPS Codes</th>
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<tbody>
<tr>
<td>Clark</td>
<td>1-Hour Ozone (1979)-NAAQS revoked</td>
<td>Portland-Vancouver AQMA, OR-WA</td>
<td>06/18/1997</td>
<td>Marginal</td>
<td>Part</td>
<td>410,990</td>
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<tr>
<td>King</td>
<td>Carbon Monoxide (1971)</td>
<td>Seattle-Tacoma, WA</td>
<td>10/11/1996</td>
<td>Moderate &gt; 12.7ppm</td>
<td>Part</td>
<td>1,693,693</td>
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<td>King</td>
<td>PM-10 (1987)</td>
<td>King County; Kent, WA</td>
<td>05/14/2001</td>
<td>Moderate</td>
<td>Part</td>
<td>47,315</td>
<td>53/033</td>
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<td>King</td>
<td>PM-10 (1987)</td>
<td>King County; Seattle, WA</td>
<td>05/14/2001</td>
<td>Moderate</td>
<td>Part</td>
<td>661,062</td>
<td>53/033</td>
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<tr>
<td>County</td>
<td>NAAQS</td>
<td>Area Name</td>
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<td>Whole or Part County</td>
<td>Population (2010)</td>
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<tr>
<td>Pierce County</td>
<td>1-Hour Ozone (1979)-NAAQS revoked</td>
<td>Seattle-Tacoma, WA</td>
<td>92939495</td>
<td>11/25/1996</td>
<td>Marginal</td>
<td>Whole</td>
<td>795,225</td>
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<td>Pierce County</td>
<td>PM-10 (1987)</td>
<td>Pierce County; Tacoma, WA</td>
<td>929394959697989900</td>
<td>05/14/2001</td>
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<td>Part</td>
<td>238,725</td>
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<td>PM-2.5 (2006)</td>
<td>Tacoma, WA</td>
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<td>539,682</td>
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<td>PM-10 (1987)</td>
<td>Spokane County, WA</td>
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<td>Thurston County</td>
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<td>Thurston County; Cities of Olympia, Tumwater, and Lacey, WA</td>
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<td>12/04/2000</td>
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<td>Part</td>
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<td>Walla Walla County</td>
<td>PM-10 (1987)</td>
<td>Walla Walla County; Wallula, WA</td>
<td>92939495969798990001020304</td>
<td>09/26/2005</td>
<td>Serious</td>
<td>Part</td>
<td>426</td>
<td>53/071</td>
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<td>Whatcom County</td>
<td>Sulfur Dioxide (2010)</td>
<td>Whatcom County, WA</td>
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<td>2001-2004</td>
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</table>

**Important Notes**

Discover.  
Connect.  
Ask.  
Follow.  

2022-12-05
# Washington Coastal Zone Management

We administer Washington's Coastal Zone Management (CZM) Program, which meets the broader national interests of protecting, restoring, and responsibly developing the state's marine shorelines in Puget Sound and Pacific Ocean coast.

## I want to...
- See Coastal Zone Management Program Announcements
- Find Information on Federal Consistency Certification Review & Enforceable Policies

The CZM program applies to all areas of 15 coastal counties, and extends three nautical miles into the Pacific Ocean, excluding federal and tribal lands.

## Management activities

We meet the goals of the federal law through a comprehensive approach to coastal resource management. This work requires us to balance the often competing — and occasionally conflicting — demands of coastal resources use, economic development, and conservation. We work with partners to achieve this mission and focus our efforts on these key priorities:

- Protecting and restoring coastal [wetlands](#)
- Preventing or reducing threats from [coastal hazards](#)
- Attaining increased opportunities for public access
- Collaborating to manage the impacts of [growth and development](#)
- Planning for the use of [ocean resources](#)
- Making sure federal activities comply with state [coastal policies](#)

<table>
<thead>
<tr>
<th>Federal incentives</th>
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</thead>
<tbody>
<tr>
<td>Program administration</td>
</tr>
<tr>
<td>Program evaluation &amp; enhancement</td>
</tr>
</tbody>
</table>

By participating in this voluntary federal-state partnership, we work with NOAA's Office for Coastal Management to design and administer a program that best reflects our state needs and local circumstances. Our federally-approved
The program is important because it means we are eligible for federal coastal zone funding which support core management activities and special enhancement projects. Having a federally-approved program also provides the state the authority to review federal actions for consistency with the enforceable policies of the program. The federal consistency provisions of the federal Coastal Zone Management Act require that federal actions, including the issuance of federal licenses and permits be consistent with the enforceable policies of Washington's Coastal Zone Management Program.

Our partnership with the federal government enhances our work by creating a mechanism for better agency coordination and collaboration, and it provides additional funding that strengthens our capacity to partner with, offer assistance to, and plan for the future needs of coastal communities.

Related links

- Coastal Zone Management Act
- NOAA Office for Coastal Management
- NOAA National Coastal Zone Management Program

Contact information

Questions or submissions for CZM federal consistency certification review
Ecology Federal Permitting Team
fedconsistency@ecy.wa.gov
360-407-6076

Questions about Washington's CZM Program operation and implementation
Henry Bell
henry.bell@ecy.wa.gov
360-628-2750
### All WCR critical habitat poly 20210929

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<th>OBJECTID</th>
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<th>Common Name</th>
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<th>Federal Register Notice</th>
<th>Publication Date</th>
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1 features 0 selected
In Reply Refer To: Project Code: 2023-0060750
Project Name: Skokomish Tribal Housing (t3ba’das Housing Project)

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological
evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: Responsibilities of Federal Agencies to Protect Migratory Birds, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.
Attachment(s):

- Official Species List
OFFICIAL SPECIES LIST
This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Washington Fish And Wildlife Office
510 Desmond Drive Se, Suite 102
Lacey, WA 98503-1263
(360) 753-9440
PROJECT SUMMARY
Project Code: 2023-0060750
Project Name: Skokomish Tribal Housing (t3ba’das Housing Project)
Project Type: Residential Construction
Project Description: The Skokomish Indian Tribe (Tribe) is proposing to construct a tribal housing project, known as the t3ba’das Housing Project (Project), consisting of the construction of seven single-family homes within an existing residential development on the northern portion of the Skokomish Indian Tribe’s Reservation in unincorporated Mason County. The Tribe has applied for Project funding through the U.S. Department of Housing and Urban Development (HUD). The Project is the construction of seven single-family homes in an existing Tribal housing development where housing lots have been graded and roadway and utility infrastructure has been constructed to serve the housing lots. The proposed homes are shown as Lots 6, 8, 12, 13, 15, 16 and 18. Retaining walls would be constructed in multiple locations next to proposed homes as indicated on the site plan. An existing stormwater collection pond would be expanded as part of the Project. All stormwater from the seven housing lots would be collected and stored in the expanded stormwater collection pond.

Project Location:
The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@47.3603863,-123.16722019313141,14z

Counties: Mason County, Washington
**ENDANGERED SPECIES ACT SPECIES**

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries\(^1\), as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. **NOAA Fisheries**, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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### BIRDS

<table>
<thead>
<tr>
<th>NAME</th>
<th>STATUS</th>
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- **Marbled Murrelet *Brachyramphus marmoratus***
  
  Population: U.S.A. (CA, OR, WA)
  
  There is final critical habitat for this species. Your location does not overlap the critical habitat.
  
  Species profile: [https://ecos.fws.gov/ecp/species/4467](https://ecos.fws.gov/ecp/species/4467)

- **Yellow-billed Cuckoo *Coccyzus americanus***
  
  Population: Western U.S. DPS
  
  There is final critical habitat for this species. Your location does not overlap the critical habitat.
  
  Species profile: [https://ecos.fws.gov/ecp/species/3911](https://ecos.fws.gov/ecp/species/3911)

---

### FISHES

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- **Bull Trout *Salvelinus confluentus***
  
  Population: U.S.A., conterminous, lower 48 states
  
  There is final critical habitat for this species. Your location does not overlap the critical habitat.
  
  Species profile: [https://ecos.fws.gov/ecp/species/8212](https://ecos.fws.gov/ecp/species/8212)

- **Dolly Varden *Salvelinus malma***
  
  No critical habitat has been designated for this species.
  
  Species profile: [https://ecos.fws.gov/ecp/species/1008](https://ecos.fws.gov/ecp/species/1008)

---

\(^1\) As of the time of printing, IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries.
## INSECTS

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<td>Taylor's (=whulge) Checkerspot <em>Euphydryas editha taylori</em></td>
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<td>There is <strong>final</strong> critical habitat for this species. Your location does not overlap the critical habitat.</td>
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<td>Species profile: <a href="https://ecos.fws.gov/ecp/species/5907">https://ecos.fws.gov/ecp/species/5907</a></td>
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## CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.
IPAC USER CONTACT INFORMATION
Agency:  Acorn Environmental
Name:  G.O. Graening
Address:  520 Wallingford Lane
City:  Folsom
State:  CA
Zip:  95630
Email  gggraening@gmail.com
Phone:  9164525442
Sole Source Aquifers

https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.
Designated Wild and Scenic Rivers where NPS has a role

Wild and Scenic-Like Rivers managed by the NPS

Designated Wild and Scenic Rivers managed by other agencies
This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.
EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

For additional information, see: www.epa.gov/environmentaljustice
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<tr>
<td>Hd</td>
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<td>2.9%</td>
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<td>He</td>
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<td><strong>Totals for Area of Interest</strong></td>
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LOCATION GROVE              WA
Established Series
Rev. CLP/RJE
11/88

GROVE SERIES

The Grove series consists of deep, somewhat excessively drained soils formed in glacial outwash. Grove soils are on terraces and terrace escarpments at elevations of near sea level to 500 feet. Slopes are 0 to 50 percent. Average annual precipitation is about 70 inches and the mean annual air temperature is about 50 degrees F.

TAXONOMIC CLASS: Sandy-skeletal, mixed, mesic Dystric Xerorthents

TYPICAL PEDON: Grove very gravelly loamy sand - forested. (Colors are for moist soil unless otherwise noted.)

Oi--2 1/2 inches to 1 inch; needles, twigs, and leaves.

Oe--1 inch to 0; partially decomposed organic matter from needles, twigs, and leaves; strongly acid (pH 5.4); abrupt smooth boundary.

Bw1--0 to 12 inches; dark reddish brown (5YR 3/4) very gravelly loamy sand, reddish brown (5YR 5/3) dry; weak very fine granular structure; soft, very friable; many fine and medium roots; 55 percent mixed gravel; moderately acid (pH 5.8); gradual wavy boundary. (6 to 12 inches thick)

Bw2--12 to 27 inches; reddish brown (5YR 4/4) very gravelly coarse sand, reddish brown (5YR 5/4) dry; single grained; loose; many fine and medium roots; 55 percent mixed gravel; moderately acid (pH 5.8); clear wavy boundary. (12 to 16 inches thick)

BC--27 to 40 inches; dark brown (7.5YR 4/4) very gravelly sand, brown (7.5YR 5/4) dry; single grained; loose; common fine and medium roots; 60 percent mixed gravel; moderately acid (pH 6.0); clear irregular boundary. (10 to 15 inches thick)

C--40 to 60 inches; very dark grayish brown (10YR 3/2) very gravelly coarse sand, dark gray (10YR 4/1) dry; single grained; loose; few fine roots; 50 percent mixed gravel; moderately acid (pH 6.0)

TYPE LOCATION: Jefferson County, Washington; 0.5 mile northwest of Jackson Cove, 0.1 mile west of powerline, SW1/4 NE 1/4 NW 1/4 sec. 13, T. 26 N., R. 2W.

RANGE IN CHARACTERISTICS: These soils are usually moist, but are dry for 45 to 60 consecutive days following summer solstice. The mean annual soil temperature is estimated to range from 47
degrees to about 53 degrees F. Coarse fragments, dominantly pebbles, in the particle-size control section range from 55 to 75 percent by volume. The soil ranges from strongly acid to moderately acid. Some pedons have a thin A horizon.

The Bw horizon has hue of 5YR or 7.5YR, value of 2 through 5 moist, 4 to 6 dry, and chroma of 2 through 4 moist and 3 through 6 dry. It is very gravelly loamy sand, very gravelly coarse sand or very gravelly sandy loam and subhorizons of sandy loam do not extend into the particle-size control section. It has weak granular or blocky structure or is single grained.

The BC horizon has hue of 10YR or 7.5YR and value and chroma of 3 through 5. it is very gravelly or extremely gravelly loamy sand or sand.

The C horizon has hue of 10YR through 5Y, value of 3 through 5, and chroma of 1 through 3. it is extremely gravelly sand or very gravelly sand.

**COMPETING SERIES:** These are the Neilton, Netrac, Snoqualmie and Wiseman series. Neilton soils are dry 60 to 75 consecutive days and have a solum less than 24 inches thick. Netrac soils have a volcanic ash surface layer that is neutral. Snoqualmie and Wiseman soils lack a Bw horizon. Wiseman soils are 40 to 80 percent phyllite channers in the particle-size control section.

**GEOGRAPHIC SETTING:** Grove soils formed in glacial outwash on terraces and terrace escarpments at elevations of near sea level to about 500 feet. Slopes are 0 to 50 percent. Grove soils are in a mild marine climate; summer is cool and dry and the winter is mild and wet. mean July temperature is 60 degrees F.; mean January temperature is 39 degrees F.; mean annual temperature is 50 degrees F. The average annual precipitation ranges from 50 to 80 inches and fog is common especially from late summer through winter. The growing season about 28 degrees F. is 160 to 215 days and frost-free season about 32 degrees F. is 160 to 180 days.

**GEOGRAPHICALLY ASSOCIATED SOILS:** These are the Hoodsport, Lystair, and Shelton soils. Hoodsport and Shelton soils have duripans. Lystair soils are coarse loamy over sandy or sandy-skeletal.

**DRAINAGE AND PERMEABILITY:** Somewhat excessively drained; slow runoff; moderately rapid permeability.

**USE AND VEGETATION:** used mainly for woodland, some small areas used for hay and pasture. Natural vegetation is Douglas-fir, western hemlock, western redcedar, red alder and bigleaf maple with an understory of salal, rhododendron, evergreen huckleberry, western brackenfern, western swordfern, Oregon-grape, salmonberry, and creambush oceanspray.

**DISTRIBUTION AND EXTENT:** Puget lowlands in western Washington. Series is of moderate extent.

**MLRA SOIL SURVEY REGIONAL OFFICE (MO) RESPONSIBLE:** Portland, Oregon

**SERIES ESTABLISHED:** Thurston County, Washington, 1949.
LOCATION HOODSPORT WA

Established Series
Rev. FRM/RWC/RJE
09/2004

HOODSPORT SERIES

The Hoodsport series consists of moderately well drained, moderately deep soils formed in glacial till on plains and foothills from sea level to 500 feet. The average annual precipitation is about 60 inches. The mean annual temperature is about 50 degrees F.

TAXONOMIC CLASS: Medial-skeletal, mixed, mesic Typic Haploxerands

TYPICAL PEDON: Hoodsport very gravelly sandy loam, forested. (Colors are for moist soil unless otherwise noted.)

Oi--2 1/2 inches to 1 inch; needles, leaves, wood, and bark.

Oe--1 inch to 0; black (5YR 2/1) partially decomposed needles, leaves, wood, and bark; strongly acid (pH 5.1); abrupt smooth boundary. (1/2 to 2 inches thick)

Bs1--0 to 6 inches; reddish-brown (5YR 4/4) very gravelly sandy loam, reddish-brown (5YR 5/4) dry; weak medium and coarse granular structure; soft, very friable; many roots; 60 percent gravel; strongly acid (pH 5.2); gradual wavy boundary. (4 to 8 inches thick)

Bs2--6 to 17 inches; reddish-brown (5YR 4/4) very gravelly sandy loam; reddish-brown (5YR 5/4) dry; weak fine and medium subangular blocky structure; soft, very friable; many roots; 60 percent gravel; strongly acid (pH 5.4); gradual wavy boundary. (10 to 16 inches thick)

BC--17 to 28 inches; dark yellowish-brown (10YR 4/4) very gravelly sandy loam, yellowish-brown (10YR 5/6) dry; single grain; loose, very friable; many roots; 70 percent gravel; strongly acid (pH 5.4); abrupt smooth boundary. (6 to 12 inches thick)

2Bqm--28 to 32 inches; dark-gray (5Y 4/1) pan that breaks to very gravelly sandy loam, gray (5Y 5/1) dry; massive; extremely hard, extremely firm; strongly cemented; 35 percent gravel; strongly acid (pH 5.5). (Several feet thick)

TYPE LOCATION: Jefferson County, Washington; 60 feet west of U. S. Highway 101, and 120 yards south and 120 yards west NW1/4 SW1/4 SE1/4 corner sec. 26, T.26N., R.2W.

RANGE IN CHARACTERISTICS: Mean annual soil temperature is estimated to range from 47 degrees to about 53 degrees F. These soils are usually moist, but they are dry in some part between 8 and 24 inches for 45 to 60 cumulative days. The particle-size control section averages
more than 50 percent coarse fragments. The soil ranges from moderately acid to very strongly acid. Depth to the strongly cemented till, ranges from 20 to 40 inches.

The Bs horizon has hue of 5YR or redder and ranges in value and chroma from 3 to 5. It has weak granular or blocky structure.

The BC horizon has 7.5YR or 10YR hue and ranges in value and chroma from 3 through 5. It is mostly very gravelly sandy loam but may contain thin subhorizons of very gravelly loamy sand. It is massive or single grained.

The 2Bqms horizon has 2.5Y or 5Y hue and value of 4 or 5, and chroma of 1 or 2.

**COMPETING SERIES:** These are the Ahl, Alderwood, Beausite, Cathcart, Copalis, Dabob, Everett, Klaus, Olete, Shelton, Sinclair, Triton, and Whidbey series. Ahl, Beausite, Cathcart, Everett, Olete, and Copalis soils lack compact till or bedrock within a depth of 40 inches. Alderwood and Sinclair soils have A1 horizons, Bir horizons of 7.5YR or 10YR hue, and weakly cemented IIC horizons. Dabob soils have A2 horizons, Bir horizons of 7.5YR hue, and weakly cemented IIC horizons. Klaus soils appear to have coarse textures by field determination. Triton soils have very gravelly loam Bir horizons and the depth to the firm IIC horizon is less than 20 inches. Whidbey soils have 7.5YR or 10YR hues in the Bir horizons and weakly cemented IIC horizons. Shelton soils have less than 35 percent coarse fragments.

**GEOGRAPHIC SETTING:** Hoodsport soils are on rolling to hilly glaciated uplands at elevations from sea level to 500 feet. They are in a mild marine climate; summer is dry and cool and most of the precipitation falls as rain in the late autumn, winter, and early spring. They formed in noncemented glacial till underlain by strongly cemented basal till. Mean January temperature is 40 degrees F.; mean July air temperature is 60 degrees F.; and a mean annual temperature is 50 degrees F., and mean annual precipitation ranges from 55 to 65 inches. The 28 degrees F. freeze-free season is 216 days and the 32 degrees F. freeze-free season is 161 days.

**GEOGRAPHICALLY ASSOCIATED SOILS:** These are the Grove and Lystair soils. Both of these soils lack pans within 40 inches.

**DRAINAGE AND PERMEABILITY:** Well drained. Runoff is medium; permeability of the B2 horizon is moderate; of the C1 horizon, rapid; and of the C2 horizon, very slow.

**USE AND VEGETATION:** Used primarily for woodland and a few areas of pasture. Native vegetation is Douglas-fir, red alder, and western hemlock with an understory of salal, evergreen huckleberry, salmonberry, thimbleberry, trailing blackberry, red huckleberry, Oregongrape, red elderberry, tingeing nettle, western brackenfern, and western swordfern.

**DISTRIBUTION AND EXTENT:** Northwestern Washington. Series is of moderate extent.

**MLRA SOIL SURVEY REGIONAL OFFICE (MO) RESPONSIBLE:** Portland, Oregon

**SERIES ESTABLISHED:** Mason County, Washington, 1953.
REMARKS: Classification only changed 4/94 because of recent amendments to Soil Taxonomy. A great group of Durixerands should be proposed for this and other Xerands with cemented layers. Diagnostic horizons and features recognized in this pedon are an ochric epipedon from the mineral surface to 6 inches, a cambic horizon from 6 to 28 inches, and a duripan at 28 to 32 inches. The pan needs further study as to the nature of the cementing agent. Laboratory data on Hoko series indicates the cement is iron, aluminum, and organic matter. This would make the horizon ortstein rather than a duripan.

National Cooperative Soil Survey
U.S.A.
Superfund Site Search Results

Found 0 site(s) that match your search criteria listed below.

Search Criteria:

- Active, Archived, or All: Active
- State: Washington
- Region: 10
- Indian Entity: Skokomish Indian Tribe

To conduct another search, return to the Search Superfund Site Information page.

DECEMBER 9, 2022
Hi, Joseph.

Thanks for reaching out. The U.S. Fish and Wildlife Service has no regulatory or statutory authority for concurring with “no effect” determinations, and no consultation with the Service is required. We recommend that the action agency (HUD and/or the Skokomish Tribe) document their analysis on effects to listed species, as you have, and maintain that documentation as part of the project file. Therefore, you don’t need to forward this letter onto anyone else. Thanks, and please let me know if you have any questions.

Jeff

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(he/him/his)