

## **Phase I Environmental Site Assessment**

Hamilton Properties  
South of 433 Center Street East  
Eatonville, Washington

*for*  
**Nisqually Land Trust**

December 6, 2012



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253.383.4940

# Phase I Environmental Site Assessment

## Hamilton Properties South of 433 Center Street East Eatonville, Washington

File No. 20894-001-00

December 6, 2012

Prepared for:

Nisqually Land Trust  
1420 Marvin Road NE  
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Attention: Nicole Hill, Director of Projects

Prepared by:

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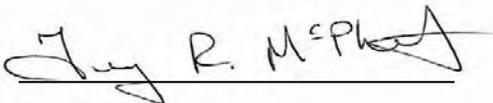
### DECLARATIONS

- "I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Sec. 312.10 of 40 CFR Part 312."\*
- "I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I performed and/or developed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."\*

\*A person who does not qualify as an Environmental Professional may assist in the conduct of all appropriate inquiries in accordance with ASTM E 1527-05, if such person is under the supervision or responsible charge of a person meeting the definition of an environmental professional when conducting such activities.



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Environmental Geologist



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TSD:TRM:cn

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## **ACRONYMS AND ABBREVIATIONS**

AAI	All Appropriate Inquiries
ACM	Asbestos containing material
AST	aboveground storage tank
ASTM	ASTM International
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
Ecology	Washington State Department of Ecology
EDR	Environmental Data Resources, Inc.
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
LG	licensed geologist
LHG	licensed hydrogeologist
MTCA	Model Toxics Control Act
PCBs	polychlorinated biphenyls
PVC	polyvinyl chloride
RCRA	Resource Conservation Recovery Act
REC	recognized environmental condition
TPCHD	Tacoma-Pierce County Health Department
ULU	Unrestricted Land Use
USGS	United States Geological Survey
UST	underground storage tank
WSDOT	Washington State Department of Transportation

## 1.0 INTRODUCTION

This report summarizes the results of our Phase I Environmental Site Assessment (ESA) completed for the Nisqually Land Trust at the Hamilton Properties (Pierce County Parcels Nos. 0476231052, 0416231045, and 0416231046) located south of 433 Center Street East in Eatonville, Washington. The property is herein referred to as the “subject property.” The parcels are herein referred to by the last four digits of the parcel number (1052, 1045, and 1046). The subject property is shown relative to surrounding physical features on the Vicinity Map, Figure 1. The layout of the subject property and surrounding properties is shown on the Site Plan, Figure 2.

Our study was completed at the request of Ms. Nicole Hill, Nisqually Land Trust. The Nisqually Land Trust is considering acquisition of the property. We understand that the results of this Phase I ESA will be used by the Nisqually Land Trust as part of their evaluation of potential environmental liabilities associated with ownership and redevelopment of the subject property.

### 1.1 Phase I Scope of Services

The purpose of this Phase I ESA was to identify recognized environmental conditions<sup>1</sup> (RECs) in connection with the subject property. Our scope of services was in general accordance with ASTM International (ASTM) Standard E 1527-05 for Phase I ESAs and the U.S. Environmental Protection Agency’s (EPA’s) Federal Standard 40 CFR Part 312 “Standards and Practices for All Appropriate Inquiries (AAI),” which are intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on liability under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The standard outlines the practice that constitutes “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined by 42 U.S.C. §9601. Our services, described below, were completed in general accordance with our scope of work dated November 13, 2012. These services were completed by, or under the direction of, an environmental professional as described in 40 CFR Part 312.

Our specific scope of services for this Phase I ESA was as follows.

1. Reviewed readily available environmental reports and/or other relevant documents pertaining to environmental conditions at the subject property.
2. Reviewed the results of a federal, state, local and tribal environmental database search provided by an outside environmental data service for listings of properties with known or

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<sup>1</sup> Recognized environmental conditions are defined in ASTM E 1527-05 as “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 a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term 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.”

suspected environmental concerns on or near the subject property within the search distances specified by ASTM. Our database and file review search also included a review of EPA and Washington State Department of Ecology (Ecology) websites for readily available information (publications and reports) concerning area-wide soil and groundwater contamination on or adjacent to the subject property. Evaluate the possibility for a vapor encroachment condition on the property generally as outlined in ASTM Standard E 2600-10 and state our opinion regarding possible vapor encroachment conditions where noted.

3. Reviewed regulatory agency files regarding listed properties of potential environmental concern relative to the subject property.
4. Identified a key site manager with specific knowledge of past and present property use and request that the key site manager meet a GeoEngineers' representative on site for an interview during the visual site reconnaissance and/or an interview by telephone if he or she is not available during the site reconnaissance. We also identified and interviewed others familiar with the use and history of the subject property, as available and appropriate, including representatives of current occupants that likely use, store, treat, handle or dispose of hazardous substances now or in the past.
5. Interviewed a representative of the local fire department, health department and/or Ecology as necessary to gather information or fill data gaps regarding the history of the subject property and surrounding properties relative to the likely presence of hazardous substances.
6. Reviewed historical aerial photographs, fire insurance maps, building department records, city directories, title reports, and land use and tax assessor records, as available and appropriate, to identify past development history on and adjacent to the subject property relative to the possible use, generation, storage, release or disposal of hazardous substances. We attempted to identify uses of the subject property from the present back to the time that records show no apparent structures on the subject property, back to the time that the property was first used for residential, agricultural, commercial, industrial or governmental purposes, or back to 1940, whichever is earliest.
7. Reviewed current United States Geological Survey (USGS) topographic maps to identify the physiographic setting of the subject property and provide a statement on the local geologic, soil and groundwater conditions based on our general experience and sources such as geologic maps and soil surveys.
8. Conducted a visual reconnaissance of the subject property and adjacent properties to identify visible evidence of RECs.
9. Identified the source(s) of potable water for the subject property and current heating and sewage disposal system(s) used at the subject property, if any, and their age if readily ascertainable.
10. Identified data gaps relative to the Phase I ESA study findings.
11. Provided this written summary of the Phase I ESA results and identified RECs along with our opinion and recommendations regarding the potential for contamination by hazardous substances at the subject property and the significance of any data gaps identified.

## 1.2 Special Considerations

Our scope of services did not include an environmental compliance audit or an evaluation for the presence of lead-based paint, mold, polychlorinated biphenyls (PCBs) in light ballasts, radon, lead in drinking water, asbestos-containing materials (ACM), urea-formaldehyde insulation or other potentially hazardous building materials, or an assessment of vapor intrusion into structures on the property per ASTM Standard E 2600-08 because no on-site structures currently exist on the subject property. Soil, groundwater or surface water sampling was not part of our Phase I ESA services.

## 1.3 Qualifications of Environmental Professional

Terry McPhetridge is a licensed geologist (LG) and licensed hydrogeologist (LHG) in Washington (#1020) and has 23 years of full-time experience conducting Phase I ESAs. Terry is an Environmental Professional per 40 CFR Part 312. Tricia DeOme is a LG in Washington (#2888) has at six years of experience conducting Phase I ESAs. Tricia is an Environmental Professional per 40 CFR Part 312. Terry and Tricia's resumes are included in Appendix A.

## 2.0 PROPERTY DESCRIPTION

### 2.1 Involved Parties

The subject property is currently owned by Dan Hamilton. The Nisqually Land Trust is considering acquisition of the property.

### 2.2 Location, Legal Description and Setting

General information, property use(s) and environmental setting of the subject property area are summarized in Table I below. The location is shown relative to surrounding physical features on Figure 1. The current layout of the subject property and surrounding property uses are shown on Figure 2. Photographs of the subject property are shown on Figures 3 and 4.

**TABLE I. SUBJECT PROPERTY INFORMATION**

Topographic Map	USGS, 7.5 minute Eatonville, Washington topographic quadrangle map dated 1998.
Quarter, Section, Township and Range	NE and NW quarters of NE quarter of Section 23, Township 16, Range 4, Willamette Meridian.
Address	Subject property is undeveloped with no address established. The address north and adjacent to the site is 433 Center Street East, Eatonville, Pierce County, Washington.
General Location	Located south of the Eatonville city center at the southernmost extent of Weyerhaeuser Road South north of the Mashel River.
Legal Description	See Appendix B.
Tax Parcel Number	Three Pierce County Parcels: 0476231052, 0416231045, and 0416231046.
Approximate Area	Approximately 14 acres.
Existing Use(s)	Undeveloped.

Geologic Setting	Puget Sound Lowland/Mashel River Floodplain.
Nearest Surface Water Bodies	Mashel River flows through the subject property. Eatonville Mill Pond is located immediately adjacent to the northwest.
Approximate Surface Elevation	820 feet above mean sea level.
Soil and Geologic Conditions	Glacial outwash and alluvium (river deposits) consisting of sands and gravels based on review of Geologic Map of the Centralia Quadrangle (Schasse, H.W., 1987).
Depth to Groundwater	Depth to groundwater is estimated to be 20 to 30 feet below ground surface (bgs) based on proximity to surface water and the Eatonville water wells located adjacent to the subject property.
Inferred Direction of Shallow Groundwater Flow	Generally to the south based on surface topography and proximity to surface water. However, the groundwater level is influenced by the water elevation in the river based on the Eatonville Watershed Control Program document. The groundwater flow direction may fluctuate due to changes in river elevation.

Our knowledge of the general physiographic setting, geology and groundwater occurrence in the vicinity of the subject property is based on our review of the maps and sources listed above, our previous reports for nearby property, and our general experience in the area.

## 2.3 Site Reconnaissance

### 2.3.1 Summary of Observations

A representative of GeoEngineers performed a visual reconnaissance of the subject property on November 27, 2012. Mr. Dan Hamilton, property owner, was identified as a “key site manager” with knowledge of the property use, but was unable to meet our representative on site. Our interview with Mr. Hamilton was completed by telephone and is summarized in Section 4.0.

The subject property was accessed from adjacent streets. The subject property is currently undeveloped. Multiple plantings of trees and bushes were observed on parcel 1052. The plantings appeared to be associated with a restoration project. A pond is located adjacent and west of the subject property and is herein referred to as the “mill pond.” Table II below summarizes conditions observed during our site reconnaissance. The approximate locations of the observed features discussed in this section are shown on Figure 2. Photographs of the subject property were taken to document observations made during our reconnaissance and selected photographs are presented on Figures 3 through 6.

**TABLE II. SUMMARY OF SITE RECONNAISSANCE OBSERVATIONS**

Features	Observed		Comment
	Yes	No	
Structures (existing)		X	None.
Structures (evidence of former)		X	None.
Heating/Cooling System		X	None.
Floor Drains, Sumps or Drywells		X	None.
Aboveground Storage Tanks (ASTs)	X		A portable water tank was observed on the subject property. Mr. Dan Hamilton, property owner, indicated the tank was placed by Washington State Department of Transportation (WSDOT) in the last year during construction of the bridge adjacent and west of the subject property. WSDOT rerouted water from the river through the subject property during construction. WSDOT also discharged turbid water generated during construction on the property to the north for infiltration purposes.
Underground Storage Tanks (USTs) or Evidence of USTs		X	None.
Drums or Other Containers		X	None.
Chemicals or Hazardous Materials (other than <i>de minimis</i> quantities of cleaning products)		X	None.
Evidence of Leaks, Spills or Releases Surrounding ASTs, USTs and/or Chemical Storage Areas		X	None.
Stained or Corroded Floors, Walls or Drains (other than apparent water stains or minor oil stains on pavement from parked vehicles)		X	None.
Pipes of Unknown Origin or Use	X		A 3-inch polyvinyl chloride (PVC) pipe was observed on top of the ground surface starting from the Town of Eatonville well house and extending towards the mill pond. Mr. Hamilton indicated the pipe was the Town of Eatonville's. He was not aware of the use of the pipe. Mr. Nick Bond indicated the excess water from the Eatonville water system flows through the pipe to maintain the level of the water in the mill pond.
On-site Septic System		X	None.

Features	Observed		Comment
	Yes	No	
Sewage Disposal System	X		A manhole labeled “sewer” was observed east of the mill pond. Mr. Hamilton indicated a former flume connected the river to the mill pond and supplied water for the mill pond. The flume was relocated underground in the 1970s. It appears the manhole is part of the flume system or part of the piping for the water system for Town of Eatonville.
Potable Water Supply		X	None.
Solid Waste Refuse Dumpsters		X	None.
Hydraulic Hoists		X	None.
Oil/Water Separators		X	None.
Discolored or Stained Soil or Vegetation Potentially from Hazardous Substances		X	None.
Hazardous Waste Disposal Areas		X	None.
Uncontained Debris, Refuse or Unidentified Waste Materials	X		A 1-inch metal wire cable was observed in the levee south of the mill pond. Mr. Hamilton indicated the levee was constructed in the early 1900s of fill and tree logs tied with wire cable.  Minor household debris (cans, plastic bags, etc.) were observed throughout the subject property.
Standing Water or Other Liquids	X		The Mashel River is located on the southern portion of the subject property.
Catch Basins and Stormwater Drainage	X		Two ditches were observed on Parcel 1052. One ditch was observed on the western portion of the parcel. Mr. Hamilton indicated water from the mill pond discharged via the ditch to the river. The other ditch is located on the east side of the mill pond. Mr. Hamilton indicated the ditch was installed by the Nisqually Indian Tribe during a restoration project. Water flows from the river to the pond via the eastern ditch to the best of his knowledge.
Pits/Ponds/Lagoons		X	None.
Waste or Wastewater Discharges		X	None.
Unusual Odors		X	None.
Stressed Vegetation		X	None.
Fill Material		X	None.
Water Wells (agricultural, domestic, monitoring)		X	None.
Pad-Mounted Transformers		X	None.
Pole-Mounted Transformers		X	None.
Other Conditions of Environmental Concern		X	None.

**2.3.2 Data Gaps**

Data gaps were not identified by this portion of the study.

**2.4 Adjacent Property and Vicinity Observations**

**2.4.1 Summary of Observations**

We viewed properties located adjacent to and surrounding the subject property on November 27, 2012 from accessible public rights-of-way and the subject property. We did not enter adjacent properties or buildings. Table III below outlines adjacent land uses and pertinent observations with respect to conditions that could pose an REC on the subject property. Figure 2 shows adjacent property uses and locations in relation to the subject property.

**TABLE III. ADJOINING STREETS AND ADJACENT PROPERTIES OBSERVATIONS**

Direction	Adjoining Street	Position Relative to Subject Property <sup>1</sup>	Adjacent Property and Use	Comments
North	None	Upgradient	Sand and Gravel Pit, Mill Pond and Undeveloped Property (Former Eatonville Lumber Mill)	The Former Eatonville Lumber Mill property address is listed as 351 Madison Avenue South in the Environmental Data Resources, Inc. (EDR) database.
Between Parcels in Subject Property	Weyerhaeuser Road	Crossgradient	Town of Eatonville Water Wells	Two pole-mounted transformers were observed on a utility pole adjacent to the property. No staining was observed on or around the utility poles beneath the transformers. See Section 4.0 for additional information on the PCB content within the transformers.
South	None	Downgradient	River and Park	None.
East	None	Crossgradient	Undeveloped	None.
West	Madison Avenue South	Crossgradient	Park and Residences	None.

Note:

<sup>1</sup> The inferred shallow groundwater flow direction in the vicinity of the subject property is toward the northeast, as described in Section 2.2.

**2.4.2 Data Gaps**

Data gaps were not identified by this portion of the study.

**2.5 Previous Reports**

**2.5.1 Summary of Previous Reports**

GeoEngineers completed a Phase I ESA in 2003 on a portion of the subject property and the adjacent property to the north. The results of the study are contained in the report are titled “Phase I ESA, Former Eatonville Lumber Company, Eatonville, Washington” dated September 12, 2003.

Mr. Don Miller of Home Team Northwest, property realtor, was contacted regarding previous investigations on the subject property to the north. Mr. Miller provided copies of the following reports for our review:

- Asbestos Survey, Former Eatonville Lumber Company, completed by E3RA, Inc., dated April 5, 2006.
- Limited Phase II ESA Former Eatonville Lumber Company, completed by E3RA, Inc., dated April 7, 2006.
- Mashel Meadows Mill Pond Sampling, Former Eatonville Lumber Company (“Hamilton Property”), completed by E3RA, dated June 2, 2007.
- Madison Avenue Property Storage Tank- Contamination Investigation, completed by Robinson and Noble, dated November 23, 2012.
- Removal Actions following Phase II ESA of Former Eatonville Lumber Mill Site, completed by Calibre, dated May 2, 2011.

The findings of the previous investigations related to potential impacts on the subject property are summarized below.

#### **GEOENGINEERS 2003 PHASE I ESA**

GeoEngineers performed a Phase I ESA for the Former Eatonville Lumber Company located at 433 Center Street East in Eatonville, Washington. The Phase I ESA was completed on the subject property and the adjacent property to the north (former lumber mill). GeoEngineers identified the following known or suspect RECs that may impact the subject property:

- A UST has been on the site since at least 1944 based on our review of historical maps. The UST contains bunker fuel and represents an REC to soil, surface water and groundwater on the subject property if leaks or spills occurred during past storage or filling operations.
- Two oil houses were present on the site in at least 1944 based our review of historical maps. An oil house was present on the site from at least 1913 to 1944 based our review of Sanborn and historical maps. A fuel vault was present on the site from at least 1933 to 1944 based on our review of Sanborn and historical maps. Petroleum products and lubricants are often used in these types of operations. Historical storage and use of petroleum products and lubricants at the facility represent an REC to soil and groundwater on the subject property if leaks or spills occurred during past storage or filling operations.
- A machine shop was present on the site from at least 1913 to 1944, based our review of Sanborn and historical maps. Two garages and a repair shed were present on the site in at least 1944, based our review of historical maps. Vehicle repair and maintenance activities conducted on the subject property in the past represent an REC to soil and groundwater on the subject property.
- Remnants (portions of the foundation including concrete, wood, bricks and roofing material) of the sawmill, powerhouse (boiler room), and dry kiln buildings are present on the southwest portion of the property. There is a potential for RECs associated with these former structures.

#### **E3RA PHASE II ESA AND ASBESTOS SURVEY**

E3RA completed a limited Phase II ESA and Asbestos Survey in 2006 to address the RECs identified in the 2003 Phase I ESA. E3RA appeared to be retained by a potential buyer on a portion

of the Eatonville Lumber Mill property. The site plan with the boring locations was not available in the report reviewed. The E3RA investigation consisted of test pits with subsequent soil sampling and chemical analysis and an asbestos survey. The following findings related to potential impacts on the subject property were summarized in the E3RA report:

- **14,000 gallon petroleum UST (likely Bunker C and diesel).** Diesel- and heavy oil-range were detected at concentrations greater than the Model Toxics Control Act (MTCA) Unrestricted Land Use (ULU) cleanup level in soil samples collected near the base of the UST (10-feet bgs).
- **Historic oil houses and fuel vault.** Visual subsurface contamination was not encountered.
- **Historic machine shop, garage and repair shed.** Visual subsurface contamination was not encountered.
- **The burner, pump house, and electrical house.** ACM was observed at the pump house and the dry kilns.

#### **E3RA POND SAMPLING**

Five sediment samples were collected from the mill pond located north of the subject property in 2007. The sediment samples were submitted for chemical analysis of petroleum hydrocarbon identification. Petroleum hydrocarbons were not detected in the analyzed sediment samples.

#### **ROBINSON NOBLE UST DECOMMISSIONING INVESTIGATION**

The 14,000 gallon Bunker C oil/diesel UST was decommissioned in 2010. Petroleum-impacted soil was observed during the UST decommissioning process. Remedial excavation of petroleum-contaminated soil was not completed. Groundwater was encountered between 17 and 18 feet bgs.

Ten test pits were completed in the vicinity of the former UST to evaluate the lateral and vertical extent of the petroleum-contaminated soil. The petroleum-contaminated soil extended to the depth of the groundwater table. Soil impacted with petroleum hydrocarbons was observed in a seam of soil near the groundwater interface at lateral distances greater than 100 feet from the UST. Petroleum impacts were not observed in the test pits completed about 60 to 80 feet south and east of the UST; however the test pits did not extend to the groundwater interface where petroleum impacts may be present.

#### **CALIBRE PHASE II ESA**

Calibre completed a Phase II ESA in 2011 on a portion of the former lumber mill site prior to the acquisition of the site by CenterPoint Church. The Phase II ESA focused on former facilities associated with the Eatonville Lumber Company operations. The Phase II ESA consisted of completing 19 test pits and five direct-push borings. Groundwater samples were collected from the direct-push borings via temporary well screens. The findings of the subsurface investigation related to potential impacts on the subject property are summarized below. The test pits were generally completed to depths ranging between 0.25 feet and 4 feet bgs. The borings were completed to depths ranging between 13 and 19 feet. The Calibre report is attached in Appendix C.

- **Toilet.** Resource Conservation Recovery Act (RCRA) metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver) and diesel- and heavy oil-range petroleum

hydrocarbons were either not detected or detected at concentrations greater than the respective MTCA Method A ULU cleanup level or MTCA B criteria in the analyzed soil sample.

- **Oil Houses (Two Locations).** Petroleum hydrocarbons were not detected in the analyzed soil samples.
- **Fuel Vault.** Petroleum hydrocarbons were not detected in the analyzed soil sample.
- **Machine Shop.** Petroleum hydrocarbons, VOCs and RCRA metals were either not detected or detected at concentrations greater than the respective MTCA Method A ULU cleanup level or MTCA B criteria in the analyzed soil sample.
- **Transformers (Two Locations).** PCBs were not detected in the analyzed soil samples.
- **Powerhouse.** Cadmium, lead, heavy-oil petroleum hydrocarbons were detected at concentrations greater than the respective MTCA Method A ULU cleanup level in a sample collected from an ash layer approximately 1 foot bgs. Chemicals of concern were either not detected or were detected at concentrations less than the MTCA Method A ULU cleanup level or MTCA B criteria in the next underlying sample collected at 2 feet bgs.

Arsenic and cadmium were detected at concentrations greater than the respective MTCA Method A ULU cleanup level in an ash sample collected from within the burners. One groundwater sample was collected between the powerhouse and the burner from direct-push boring GP-5. Petroleum hydrocarbons and VOCs were not detected in the analyzed groundwater sample.

Total arsenic, chromium and lead were detected at concentrations greater than the MTCA Method A cleanup level in the groundwater sample collected from GP-5. Other total metals and all of the dissolved metals (including arsenic, chromium and lead) were either not detected or detected at concentrations less than the respective MTCA Method A groundwater cleanup level or MTCA B groundwater criteria in the groundwater sample collected from GP-5. The report indicates the elevated the metals results are related to sediment in the water sample.

- **Dry Kiln.** ACM was identified in the walls of the former kiln.
- **Planing Mill.** Test pits completed in the area of the planing mill were visually inspected. Visual evidence of a release was not observed.
- **Sawmill.** Test pits completed in the area of the saw mill were visually inspected. Visual evidence of a release was not observed.
- **Pump House.** Test pits completed in the area of the pump house were visually inspected. Visual evidence of a release was not observed.
- **15,000 gallon UST.** Four direct-push borings were completed south and west of the former UST to evaluate groundwater conditions. Groundwater was encountered between 13 and 19 feet bgs. Heavy-oil range petroleum hydrocarbons were detected at a concentration greater than the MTCA Method A groundwater cleanup level in one groundwater sample from boring GP-2 located approximately 70 feet southwest of the former UST. Petroleum hydrocarbons were not detected in the remaining three groundwater samples that were collected approximately 100 to 110 feet west, south and southeast of the former UST. The subject property is located approximately 1,100 feet from the former UST. The lateral extent of the

petroleum-contaminated groundwater appears to be limited to less than 100 feet from the UST and is not considered an REC to the subject property.

#### **CALIBRE POWERHOUSE REMEDIAL ACTIVITIES**

Calibre completed remedial activities at the powerhouse located north and adjacent to the mill pond in 2011 to remove the oil-range petroleum hydrocarbons and metal-contaminated ash encountered during the 2011 Phase II ESA. Approximately 25 cubic yards of metal- and petroleum-contaminated soil and ash were excavated and disposed off site. Diesel- and lube oil-range petroleum hydrocarbons and metals were either not detected or detected at concentrations less than the MTCA Method A ULU cleanup level in the analyzed confirmation soil samples.

A report prepared by Eco Environmental Services was provided as an attachment to the Calibre report. The Eco Environmental Services report was related to the abatement of the asbestos-contaminated building blocks from the former dry kiln.

#### **2.5.3 Data Gaps**

Data gaps were not identified during this portion of the study.

### **3.0 ENVIRONMENTAL RECORDS REVIEW**

#### **3.1 Database Search**

GeoEngineers reviewed the results of a search of pertinent environmental regulatory lists and databases for current or previous facilities listed at addresses located within ASTM-specified distances from the subject property. The search was performed on November 15, 2012. The information reviewed was provided by a subcontracted regulatory list search service, EDR. The EDR report is presented in Appendix D. The report includes details regarding the listed facilities identified and maps showing the approximate locations of the listed facilities relative to the subject property. Section 4.0 of this report includes information regarding historical gas stations and dry cleaners based on the EDR proprietary historical city directory database. Those listings (see Appendix C) are not included here in Section 3.0 unless the historical facilities are also listed in regulatory agency databases as known or suspected contaminated sites.

GeoEngineers reviewed the search results for listings pertaining to the subject property. GeoEngineers also reviewed EDR listing of database entries that could not be mapped by EDR because of insufficient addresses (orphans). Off-site facilities found within the specified distances from the subject property were evaluated for potential impact to the subject property.

The subject property was not listed. Table IV below summarizes the listed facilities that in our opinion could pose an REC to the subject property. Other listed facilities identified in Appendix D either are located a significant distance from the subject property or are located in an inferred down- or crossgradient position relative to the subject property and are unlikely to pose a potential environmental concern to the subject property, in our opinion.

**TABLE IV. SUMMARY OF REGULATORY DATABASE SEARCH LISTINGS OF POTENTIAL ENVIRONMENTAL CONCERN**

Location	Listed Business	Listed Address	Regulatory Database	Description
Adjacent and North of the Subject Property	Hamilton CenterPoint	351 Madison Avenue S	Confirmed and Suspected Contaminated Sites List (CSCSL)	Diesel contamination in soil has been confirmed at this site. Site is reportedly awaiting cleanup. We reviewed Ecology's files for this listing as further discussed in Section 3.2.

### 3.2 Review of Regulatory Files

We reviewed Ecology's files for the listing identified in Section 3.1. Ecology provided the files via electronic mail between November 15 and November 27, 2012. A summary of pertinent information follows.

#### Hamilton CenterPoint, 351 Madison Avenue S

The Hamilton CenterPoint property is located north and adjacent to the subject property. Ecology files contain the Robinson and Noble UST Removal Report and the 2011 Calibre Remediation Report as provided by Mr. Don Miller and discussed in Section 2.5. Ecology files also included the following documents.

- Letter from Tacoma-Pierce County Health Department (TPCHD) to the Hamiltons dated January 20, 2011
- Letter from Ecology to the Hamiltons dated December 7, 2011

The letters indicated the site was being added to the contaminated sites list and that TPCHD planned to contact the Town of Eatonville regarding potential impacts to the Town of Eatonville water wells from the petroleum-impacted soil and groundwater from the site.

### 3.3 Review of Area-wide Contamination Reports

We conducted a search of Ecology and EPA websites for readily available information (publications and reports) that may concern area-wide soil and groundwater contamination on or adjacent to the subject property. Area-wide contamination reports pertaining to the subject property vicinity were not identified.

### 3.5 Data Gaps

Data gaps were not identified for this portion of the report.

## 4.0 PROPERTY HISTORY

### 4.1 Historical Resources

Our understanding of the subject property history is based on a review of the information from the historical resources listed in Table V and interviews with the individuals listed. Selected historical research documents are included in Appendix E.

**TABLE V. HISTORICAL RESOURCES REVIEWED**

Description	Provider or Interviewee	Dates of Coverage or Dates of Knowledge of the Property	Date Reviewed or Contacted	Comment (See Section 4.2 for findings)
Historical Aerial Photographs <sup>1</sup>	Environmental Data Resources, Inc. (EDR)	1941, 1952, 1957, 1968, 1982, 1990, 1992, 1989/1994 composite, and 2006	11/15/2012	None.
Oblique Historical Photograph	<a href="http://eatonvillatorainier.com/">http://eatonvillatorainier.com/</a>	1946	11/27/2012	None.
Historical Fire Insurance Maps	EDR search of Sanborn maps	1914 and 1933	11/15/2012	None.
Historical City Directories	EDR search at public libraries	Approximate five-year intervals, 1980 to 2008	11/21/2012	None.
Historical Topographic Maps	EDR search	1937, 1944, 1949, 1959, 1973, 1990, and 1998	11/15/2011	None
Historical Maps	Provided in 2003 Phase I ESA	1923 and 1944	12/3/2012	None.
County Assessor Records	Pierce County Assessor Website	Recent	11/15/2012	None.
Commitment for Title Insurance	Ticor Title Company	October 4, 2012	11/30/2012	None.
Interview	Dan Hamilton	Recent	11/29/2012	See Section 4.4 for findings.
Interview	Rob Olson, TPCHD	Recent	11/30/2012	See Section 4.5 for findings.
Interview	Brad Costello, TPCHD	Recent	11/28/2012	See Section 4.5 for findings.
Interview	Eatonville Fire Department	Recent	11/15/2012	Eatonville Fire has indicated they do not maintain files for USTs and hazardous materials spills. Eatonville Fire indicated we should contact the Eatonville Building Department.

Description	Provider or Interviewee	Dates of Coverage or Dates of Knowledge of the Property	Date Reviewed or Contacted	Comment (See Section 4.2 for findings)
Interview	Eatonville Building Department	Recent	11/27/2012	We interviewed Nick Bond, Town Planner regarding the subject property. Mr. Bond indicated he was not aware USTs or spills of hazardous materials on the subject property. Mr. Bond provided additional information and documents related to the Eatonville water well system as described in Section 4.6.
Interview	Eatonville Light	Recent	12/3/2012	We interviewed Dan Sharp, Eatonville Light, regarding the PCB content of the two pole-mounted transformers adjacent to Parcel 1045 and 1046. Mr. Sharp indicated the transformers were non-PCB.

## Note:

<sup>1</sup> The scale of the photographs reviewed allowed for an interpretation of general property development/configuration, such as identifying most structures, roadways and clearings. However, the scale of the photographs did not allow for identification of specific property features, such as fuel pumps, wells or chemical storage areas on the subject property, if any.

## 4.2 Historical Property Ownership and Use Summary

The available historical sources indicate that the subject property has been owned by the Hamilton family since 1959. Prior to 1959, the property was owned by Eatonville Lumber Company.

The subject property was formerly a portion of the Eatonville Lumber Company operations based on the historical research. The Eatonville Lumber Company was a large lumber mill property in Eatonville, operational between the early 1900s and 1950s. Sanborn maps dated 1914 and 1933 show several small bunkhouse buildings east of the mill pond near the northern boundary of the subject property. The bunkhouse buildings are also visible in the 1941 and 1952 aerial photographs. The bunkhouse buildings appear to be just north of a flume from the nearby dam based on our review of the Sanborn maps. The flume crossed at least a portion of the west side of the subject property; however, the full extent of the flume cannot be seen in the available aerial photographs and cannot be determined from available resources.

Historical maps of the Eatonville Lumber Company provided in the 2003 Phase I ESA show that a railroad spur was located across the western portion of the subject property (Parcel 1052) and terminated at a log dump area along the south side of the mill pond (as shown on Figure 2). The trace of the railroad spur line is visible in aerial photographs dated 1941 through 1957. Portions of the railroad spur line to the north of the subject property appear to have been converted to a driveway and remain visible in 1968 to recent aerial photographs.

Eatonville Lumber Company closed in 1954. The bunkhouse buildings are no longer visible in the 1957 aerial photograph. The property was used as a residence by the Hamilton family since 1959 and as a poultry farm from approximately the 1960s to 1990s. The subject property appears undeveloped and partially forested in the aerial photographs dated 1957 to recent. A small trail or roadway visible crossing the east half of the property and providing access to the Mashel River in 1980s and later aerial photographs.

### 4.3 Adjacent Properties

Adjacent properties generally were developed for lumber mill purposes in the early 1900s.

**North.** The property to the north was used in the operation of the Eatonville Lumber company lumber mill from the early 1900s to the 1954. The lumber mill facility included a mill pond, a “beehive” burner, shingle mill, boiler building, steam and dry kilns, a black smith and machine shop, and lumber storage sheds. The majority of the working portions of the facility were located to the north and northwest. The nearest lumber company process buildings to the subject property included a planing mill and lumber shed to the north of the west half of the subject property across the railroad spur track. Lumber mill facility buildings were demolished in stages between the 1950s and 1990s.

**South, West, and East.** Mashel River and undeveloped forest is visible to the south, west, and east in the reviewed available historical resources. The existing George Smallwood Park to the south was established in the mid-1980s. The existing Eatonville Water Treatment Plant between the east and west portions of the subject property was built in the 1990s.

### 4.4 Information Provided by Key Site Manager

A GeoEngineers, Inc. representative interviewed Mr. Dan Hamilton on November 29, 2012 via telephone to discuss the history of the subject property. Mr. Hamilton indicated the following during the interview.

- Mr. Hamilton’s father purchased the subject property and the adjacent property to the north in 1959. Mr. Hamilton was raised on the subject property and the adjacent property to the north.
- A former wood mill, (Eatonville Lumber Company) operated on the subject property and adjacent property to the north between the early 1900s to 1954.
- The subject property has been used to access the river for water sources for the mill pond and contained the bunkhouses to the best of his knowledge. The bunkhouses were utilized by workers at the mill. He indicated the bunkhouses were very rudimentary.
- A salvage company was granted the rights to scrap the mill between 1954 and 1959. Mr. Hamilton indicated a rail line was not located on the subject property when they acquired the property in 1959.
- The mill pond located north and adjacent to the subject property is a manmade pond. The mill pond was utilized to stage uncut logs prior to milling. A levee is present on the south side of the mill pond. The levee was constructed of fill and trees tied together with wire cables in the early 1900s.
- A flume was present on the subject property and directed water from the river to fill the mill pond. In the mid 1970s the Town of Eatonville replaced the flume with an underground pipe when the city water wells were installed.
- The ditch located on the eastern portion of the mill pond was installed in the last few years when the Nisqually Indian Tribe installed the wood structures in the stream. Mr. Hamilton is not aware of the purpose of the ditch but he indicated water should run from the river to the mill pond.

- The pond water either infiltrates or discharges to the river via a ditch near the western portion of the mill pond.
- Mr. Hamilton indicated he has caught fish in the mill pond in the past.
- The Army Corp of Engineers placed riprap on the Mashel river bank in the 1970s.
- The Town of Eatonville installed the 3-inch PVC pipe starting west of the Town of Eatonville water wells to the mill pond about five to eight years ago. He is not aware of its use.
- The portable water tank located east of the mill pond was placed by the Washington State Department of Transportation during construction that occurred in the river to protect the road in the last few years. The tank was used for storing water pumped from the construction area. The water was either discharged back to the river or infiltrated on the property to the north.
- Mr. Hamilton indicated he was aware of petroleum-contaminated soil associated with the UST removed on the property to the north of the subject property. He indicated he was not aware of groundwater sampling and chemical analysis.
- A gravel pit operated on the property north of Parcel 1045. The property is not owned by the Hamiltons. He did indicate that the facility is not extensively used.
- The Town of Eatonville completed the test wells described in the TPCHD files in 2003 to the best of his knowledge. He is not aware of the results but does not think the Town of Eatonville installed additional water wells.
- The two pole-mounted transformers located west of Parcels 1045 and 1046 are utilized by the Town of Eatonville to power the water wells.
- According to Mr. Dan Hamilton, there are no underground storage tanks (USTs) or aboveground storage tanks (ASTs) at the subject property. He also indicated that there have been no leaks, spills or releases of hazardous substances or petroleum at the subject property to the best of his knowledge.

#### 4.5 Tacoma-Pierce County Health Department Files and Interview

Mr. Brad Costello, TPCHD, provided the TPCHD files for review regarding the Town of Eatonville water wells and the Hamilton/CenterPoint UST files. The Town of Eatonville water well files provided the locations of five water wells. Three of the wells are located on the Town of Eatonville property east of Parcel 1052. Two of the water wells are located on the Town of Eatonville property between Parcels 1045 and 1046. A surface water intake is also located adjacent to the Mashel River north and adjacent of Parcel 1046. The water well files also indicated that test wells were planned in 2003 on the northern portion of Parcel 1045. The records in the file did not indicate if the test wells were completed.

The Hamilton CenterPoint UST files contained the same reports that were reviewed in the Ecology file. The file also contained a memorandum to the file from Rob Olson regarding potential impacts from the petroleum contamination to the Town of Eatonville water wells from the former UST. We interviewed Mr. Rob Olson via telephone on November 30, 2012. Mr. Olson indicated TPCHD is concerned regarding the wide spread impacts of the petroleum-contaminated soil at the groundwater interface and the lack of groundwater sampling data. The known impacts are within the 1-year groundwater protection zone of the Eatonville water wells. TPCHD has met with the

Town of Eatonville and the Department of Health regarding their concerns. Mr. Olson indicated he is unaware if the Town of Eatonville has tested their wells for petroleum products.

#### 4.6 Town of Eatonville Files

Mr. Nicholas Bond of the Town of Eatonville provided files related to the Town of Eatonville Water System. The files consisted of the following:

- Draft Town of Eatonville Comprehensive Water System Plan, Chapters “Water System Description,” “Water Quality Monitoring Plan,” “Water Source and Quality,” and “Watershed Control Program” (currently being completed)
- Quality of Tap Report, Town of Eatonville, Calendar Year 2010

In general, the Town of Eatonville operates four water wells (Wells 1, 2, 5 and 6) and a surface water intake adjacent to the subject property. The four water wells are located on the treatment plant property between Parcels 1052 and 1045/1046. The surface water intake is located between Parcels 1045 and 1046. Wells 1, 2 and 5 were installed in the 1960s/70s, and Well 6 was installed in 2004. The location of the water wells and surface water intake are shown on Figure 2.

The water wells are located within an unconfined aquifer with influence from the Mashel River. Groundwater levels have been observed to rise 6 feet in elevation with a 1-foot rise in the river. Chemicals of concern for drinking water have been detected at concentrations less than drinking water standard.

Mr. Bond also indicated the 3-inch PVC pipe located on Parcel 1052 between the Eatonville wells and the mill pond is used to maintain the level in the pond. Excess water from the raw river/water wells is discharged through the pipe.

#### 4.7 Environmental Liens or Property Use Restrictions

During the course of our research, we did not find that environmental liens had been filed against the subject property.

#### 4.8 Information Provided by User/User Obligations

We received responses to a user questionnaire, a copy of which is provided in Appendix F. According to the responses from the user-provided information (for example, title records, environmental liens, specialized knowledge of the subject property, etc.), the user did not provide additional information that would suggest an REC or potential REC relative to the subject property.

#### 4.9 Findings

Additional potential RECs were not identified by this portion of the study.

#### 4.10 Data Gaps

Data gaps were not identified in this portion of the report.

## 5.0 CONCLUSIONS

GeoEngineers has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527 of the Hamilton Properties site (Pierce County Parcels Nos. 0476231052, 0416231045, and 0416231046 located) located south of 433 Center Street East in Eatonville, Washington. Any exceptions to, or deletions from, this practice are described in Section 1.2 of this report. This assessment has revealed evidence of RECs in connection with the subject property as discussed below.

- A mill pond is located north and adjacent to the western portion of the subject property. The pond was utilized between 1905 and the 1954 to store logs prior to milling according to Mr. Dan Hamilton, property owner representative. Petroleum hydrocarbons were not detected in five sediment samples collected in the pond. Metals and PAHs are typical contaminants of milling processes and were not analyzed in the sediment samples.

Metal and petroleum-impacted ash was documented and remediated in the burners adjacent and north of the mill pond. Petroleum hydrocarbons, VOCs and dissolved metals were not detected in one groundwater sample collected between the burners and the mill pond. Total arsenic, lead and chromium were detected at concentrations greater than the MTCA Method A groundwater cleanup level in the groundwater sample collected. The discrepancy in the metal concentrations appears to be related to turbidity in the groundwater sample. There is a potential that contaminated ash was deposited in the mill pond in the last 100 years. Mr. Hamilton indicated the mill pond water infiltrates into the subsurface and/or discharges through an outlet on the west side of the mill pond towards the river. The discharge ditch is located on the subject property.

The potential impacts to sediment in the discharge ditch is considered a potential REC to the subject property and may be a risk to wildlife in the area via direct contact with soil and surface water runoff. The potential impact to groundwater on the subject property from the mill pond is considered an REC to the subject property. There is also likely communication between the groundwater on the subject property and nearby surface water of the Mashel River.

- A manmade levee is located on the subject property just south of the mill pond. The levee was constructed with lumber-tied cables and fill material during operation of the lumber mill in the early 1900s according to Mr. Dan Hamilton. The source of the fill is unknown and considered an REC to the subject property and may be a risk to wildlife in the area via direct contact with soil and surface water runoff.
- A rail spur and log dump were located on the subject property between at least 1923 and 1959. It is unknown if the ties associated with the rail spur have been removed. Petroleum hydrocarbons and metals are typically associated with rail activities due to spills, dust from brakes and creosote treated ties. The presence of the rail spur and log dump is considered a potential REC if the soil and/or groundwater has been impacted by petroleum hydrocarbons and metals.

In our opinion, there is a potential for soil and/or groundwater contamination resulting from the above conditions. Further evaluation of this potential would require additional research and/or explorations and sampling of soil and groundwater and appears warranted at this time.

## 6.0 LIMITATIONS

This Phase I ESA has been prepared for use by Nisqually Land Trust. GeoEngineers has performed this Phase I ESA of the Hamilton Properties site (Pierce County Parcel Nos. 0476231052, 0416231045, and 0416231046) located south of 433 Center Street East in Eatonville, Washington in general accordance with the scope and limitations of our scope of work dated November 13, 2012 and ASTM E 1527-05, Standard Practice for Phase I ESAs and EPA's Federal Standard 40 CFR Part 312 "Standards and Practices for All Appropriate Inquiries (AAI)."

Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted environmental science practices for Phase I ESAs in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

Please refer to Appendix G titled "Report Limitations and Guidelines for Use" for additional information pertaining to use of this report.

We appreciate the opportunity to be of service to Nisqually Land Trust. Please call if you require more information or have questions regarding this report.

## 7.0 REFERENCES

ASTM International (ASTM), Standard E 1527-05 for Phase I ESAs.

Calibre, March 10, 2011, Phase II ESA, Former Eatonville Lumber Mill Site (10 Acre Parcel of the Larger Parcel).

Calibre, May 2, 2011, Removal Actions following Phase II ESA of Former Eatonville Lumber Mill Site.

Eatonville to Rainier, <http://eatonvilletorainier.com/>, 1946 Photograph of Eatonville.

E3RA, Inc., April 5, 2006, Asbestos Survey, Former Eatonville Lumber Company.

E3RA, Inc., April 7, 2006, Limited Phase II Environmental Site Assessment, Former Eatonville Lumber Company.

E3RA, Inc., June 2, 2007, Mashel Meadows Mill Pond Sampling, Former Eatonville Lumber Company ("Hamilton Property").

Environmental Data Resources, Inc. (EDR), November 15, 2012, EDR Radius Map Report (comprehensive environmental database report, including Ecology and EPA databases).

EDR aerial photographs dated 1941, 1952, 1957, 1968, 1982, 1990, 1992, 1989/1994 composite, and 2006.

Pierce County Assessor records provided by Pierce County Assessor Website.

Polk City Directory listings provided by EDR, dated Approximate five-year intervals, 1980 to 2008.

Robinson and Noble, November 23, 2012, Madison Avenue Property Storage Tank-Contamination Investigation.

Sanborn Fire Insurance Maps dated 1914 and 1933.

Schasse, H.W., 1987, Geologic map of the Centralia quadrangle, Washington: Washington Division of Geology and Earth Resources, Open File Report 87-11, scale 1:100,000. Town of Eatonville, Draft Town of Eatonville Comprehensive Water System Plan, Chapters "Water System Description," "Water Quality Monitoring Plan," "Water Source and Quality," and "Watershed Control Program" (currently being completed).

Town of Eatonville, Quality of Tap Report, Town of Eatonville, Calendar Year 2010.

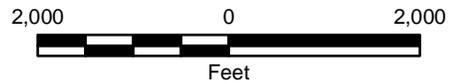
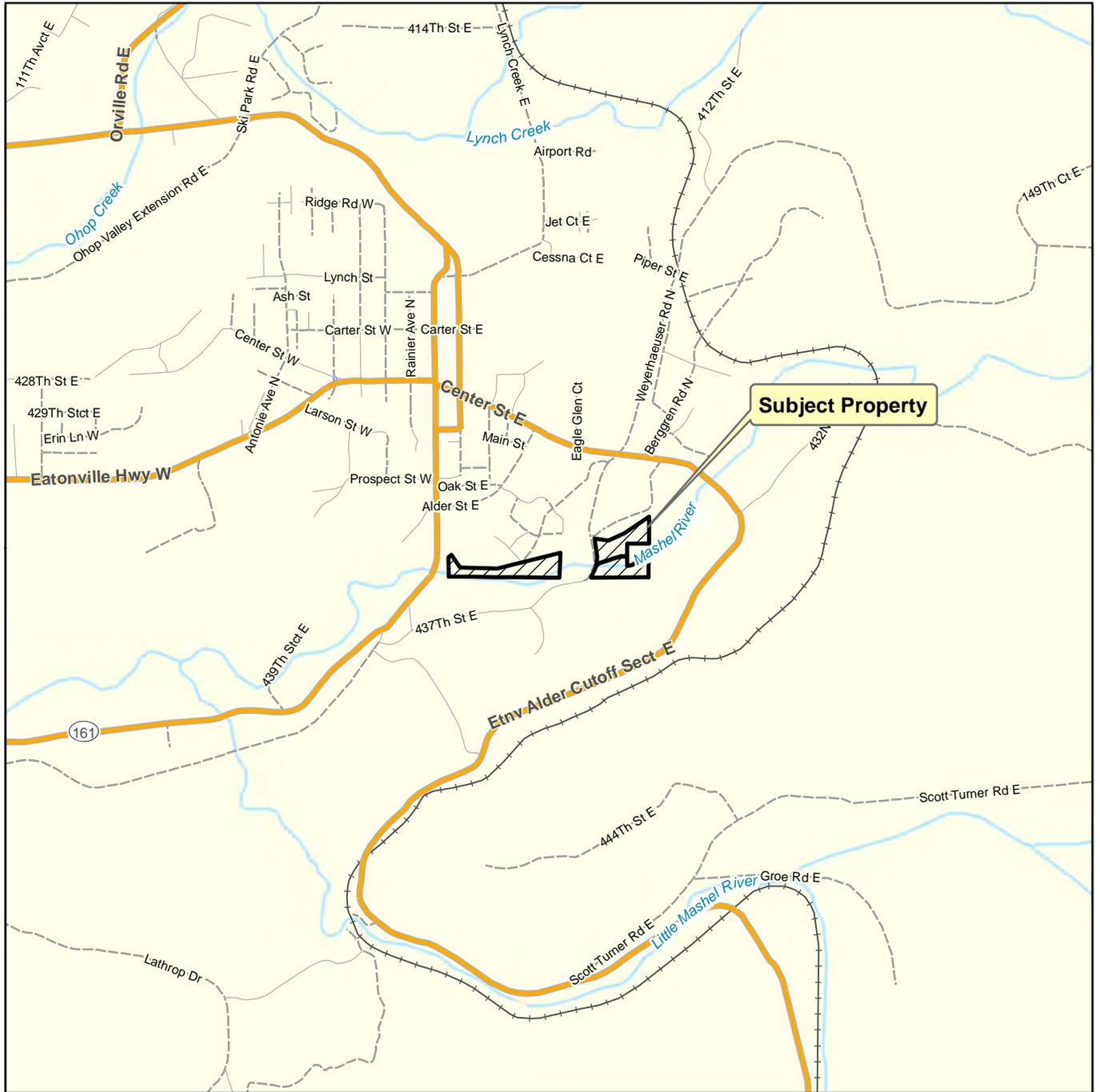
U.S. Environmental Protection Agency (EPA) Federal Standard 40 CFR Part 312 "Standards and Practices for All Appropriate Inquiries (AAI).

United States Geological Survey (USGS), topographic maps for Eatonville and Ohop Valley, Washington quadrangles provided by EDR, dated 1937, 1944, 1949, 1959, 1973, 1990, and 1998.

Map Revised: 06 December 2012 tdeome

Path: P:\20120894001\GIS\2089400100\_fig1.mxd

Office: TAC



Notes:

- UWT = University of Washington Tacoma
  - 1. The locations of all features shown are approximate.
  - 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
  - 3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.
- Data Sources: ESRI Data & Maps  
 Projection: NAD 1983 UTM Zone 10N

Vicinity Map

Phase I ESA - Hamilton Properties  
Eatonville, Washington



Figure 1

Map Revised: 06 December 2012 tdeome

Office: TAC  
 Path: P:\2020894001\GIS\2089400100\_fig2a.mxd



Data Source: Historical features were located from aerial photographs and maps referenced in the attached Phase I ESA. Current features were observed by a representative of GeoEngineers, Inc on November 27, 2012.  
 Projection: WGS 1984 Web Mercator Auxiliary Sphere  
 Notes:  
 1. The locations of all features shown are approximate.  
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Legend							
	Approximate Subject Property Boundary		Pond Discharge Ditch		Former Log Dump		Pole-Mounted Transformer
	Main Operations of Former Mill		Former Flume		Former UST		Surface Water Intake Building
	Approximate Location of Former Bunkhouses		Former Rail Spur		Creosote Power Pole		Wood Gate
	Approximate Location of Manmade Levee		Overgrown Road		Manhole Lid		
	Pond Intake Ditch						

**Site Plan**

Phase I ESA - Hamilton Properties  
 Eatonville, Washington

**Figure 2**



**VIEW OF PARCEL 1052, FORMER RAILSPUR AND MILL POND  
(LOOKING WEST)**



**VIEW OF METAL CABLE IN MILL POND LEVEE  
(LOOKING NORTH)**

20894-001-00 PhotoFigures



**VIEW OF THE WESTERN PORTION OF PARCEL 1052  
(LOOKING WEST)**



**VIEW OF THE EASTERN PORTION OF PARCEL 1052 AND 3-INCH PVC PIPE  
BETWEEN THE MILL POND AND THE TOWN OF EATONVILLE WATER WELLS  
(LOOKING EAST)**

20894-001-00 PhotoFigures



**VIEW OF CREOSOTE TREATED POLE ON PARCEL 1052  
(LOOKING WEST)**



**REPRESENTATIVE VIEW OF PARCEL 1046  
(LOOKING WEST)**

20894-001-00 PhotoFigures



**REPRESENTATIVE VIEW OF PARCEL 1045  
(LOOKING NORTH)**



**VIEW OF WOOD GATE ON PARCEL 1045  
(LOOKING NORTH)**

20894-001-00 PhotoFigures



**APPENDIX A**  
**Resumes**

## TERRY R. MCPHETRIDGE, LG, LHG, ASSOCIATE ENVIRONMENTAL GEOLOGIST

### EDUCATION

B.S., Geology, San Diego State University, 1987

### REGISTRATIONS

Washington: Licensed Geologist, Licensed Hydrogeologist (No. 1020)

Oregon: Registered Geologist (No. G1618)

Idaho: Professional Geologist (No. 978)



### EXPERIENCE

Terry has 20 years of experience in environmental consulting, project management, regulatory compliance and technical supervision. He has managed multiple and concurrent projects, regulatory agency coordination and interface, cost estimate and proposal preparation, project cost and schedule control, data analysis and evaluation, technical report development and direct client interface. He has considerable experience in site investigations/cleanups of soil and groundwater at contaminated sites in accordance with Model Toxics Control Act (MTCA), Resource Conservation and Recovery Act (RCRA), and Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) regulations and environmental permitting and compliance issues related to RCRA, and hazardous waste regulations. Terry has managed and performed numerous Phase I ESAs in accordance with American Society for Testing and Materials (ASTM) 1597 standards. Terry has managed environmental assessments of commercial and industrial operation facilities as well as right-of-way parcels.

- **BNSF Railway, Phase I and Phase II ESAs, Pierce and King County, Washington** The BNSF Railway Company (BNSF) planned to purchase approximately 100 parcels of property comprising 23 sites along the commuter rail line between Tacoma and Seattle, Washington as part of the Sound Transit Commuter Rail Project. Terry conducted Phase I Environmental Site Assessments (ESAs) for each of the 23 sites consistent with the current American Society for Testing and Materials (ASTM) guidance as a subcontractor to Pharos Corporation. The ESAs included performing a site reconnaissance; researching historical topographic maps, aerial photographs, and business directories; interviewing current and past property owners; and evaluating past and present land use with regard to potential soil and ground water contamination. Phase II ESAs were performed at the sites identified as having Recognized Environmental Conditions during the Phase I ESA. The Phase II ESAs consisted of completing soil borings, collecting and submitting soil and groundwater samples for chemical analysis, and characterizing contaminated soil for proper disposal.
- **Pierce County Public Works and Utilities, Canyon Road Extension, Puyallup, WA.** GeoEngineers provided environmental and geotechnical services in support of design and construction of the Canyon Road extension project. Terry led environmental services for the project that included performing Phase I and II ESAs on approximately 45 parcels, portions of which will be subject to right-of-way acquisition purchases.

## TRICIA S. DEOME, LG, ENVIRONMENTAL GEOLOGIST

### EDUCATION

B.S., Geology, Western Washington University, 2004

### REGISTRATION

Licensed Geologist, Washington (No. 2888)



### CERTIFICATIONS/TRAINING

Certified Erosion and Sediment Control Lead, Washington State Department of Ecology (Ecology)

Contractor Safety Orientation Trained, BNSF Railway Company (BNSF)

40-Hour Hazardous Waste Site Certified, OSHA 29

8-Hour Hazardous Waste Certified, OSHA 29

Washington State Site Assessment, International Code Council (ICC)

24-hour Emergency Spill Response Trained, Puget Sound Energy (PSE)

Introduction to River Restoration: Physical Process, Portland State University

Site Reconnaissance and Assessment, Portland State University

### EXPERIENCE

Tricia is a geologist with more than five years of consulting experience. She has been performing hazardous materials services within the context of federal and state regulations and internal policies for numerous projects, since joining GeoEngineers. Tricia is also familiar with the WSDOT Environmental Procedures Manual and helped author the 2009 revisions for hazmat. She has completed more than 50 Phase I ESA, Phase II and Hazardous Materials Corridor Studies. She has a full range of experience working directly for a variety of entities including municipal, private-side, and public works clients.

Most projects involve compliance with the Model Toxics Control Act (MTCA), contained in Chapter 173-340 Washington Administrative Code and administered by Ecology as well as notification and reporting procedures. Tricia is familiar with these codes and procedures.

- **BNSF, Vancouver Bypass Project; Vancouver, WA.** BNSF is planning it expand the railroad operations in Vancouver, WA. The expansion requires property acquisition, full and partial, along the corridor. Tricia has completed 16 Phase I ESAs and five Phase II ESAs along the corridor in the last two years. Tricia has managed the budget and schedule of the ESAs in the last year. In the last two years the project priorities have changed significantly based on the design and GeoEngineers has responded in a timely manner.
- **WSDOT, Whatcom Yard Phase I ESA; Seattle, WA.** GeoEngineers completed a Phase I ESA on a one-mile-long rail yard adjacent to the Alaskan Way Viaduct. Another firm previously completed a discipline report and WSDOT requested a more in-depth analysis of the rail yard and surrounding properties during the design phase for the project engineers. Tricia compiled historical resources and previous reports and borings completed in the area. She identified the properties of concern with their approximate location of known contamination on a map. The map provided visual representation of properties of concern and known contamination during the design. Future subsurface investigations and the design were based on information provided in the Phase I ESA.



**APPENDIX B**  
**Title Report**

## REQUIRED CLOSING / POST CLOSING INSTRUCTIONS

### POLICY DISTRIBUTION REQUIREMENTS

As part of Ticor Title Company's commitment to the environment as well as providing expedited service, all policies will be electronically distributed.

**In order to receive your policy, email addresses must be included as part of your closing order instructions.**

#### Post-Closing:

If email addresses are not available at closing the information can be emailed to [WAPolicy@ticortitle.com](mailto:WAPolicy@ticortitle.com). Upon receipt, policies will be delivered to the address provided within 72 hours.

### RECONVEYANCE FEES

#### Reconveyance Fee effective November 1, 2009:

- " \$135.00 - Base Fee or \$200.00 - Private Lost Note
- " MUST INCLUDE:
- " Original Deed of Trust (or Indemnity Agreement)
- " Original Promissory Note (or Indemnity Agreement)
- " Request for Full or Partial Reconveyance with ALL Beneficiary Signatures

#### Release Tracking Fee effective November 1, 2009

- " \$135.00 - Escrow Fee

### RECORDING FEES

#### Document Recording Fee as of April 16, 2012:

Recording Desk Email: [RecordingDesk.Renton@TicorTitle.com](mailto:RecordingDesk.Renton@TicorTitle.com)

Recording charge for a RESPA transaction (all transfer and loan documents):

RESPA Residential Sale and Purchase \$172.00

RESPA Residential Loan/Refinance \$100.00

RECORDING CHARGES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Note: Recording charge (per document) for a Non-RESPA transaction:

Non-Respa - \$63.00 - First Page

Non-Respa - \$14.00 - First Page: Assignment of Deed of Trust, Substitution or Appointment of Successor Trustee

### RECORDING FORMAT

Failure to comply with the following requirements may result in rejection of the document by the county recorder or imposition of a \$50.00 surcharge.

#### First page or cover sheet requirements:

- " 3" top margin containing nothing except the return address.
- " 1" side and bottom margins containing no markings or seals.
- " Title(s) of documents.
- " Recording Number of any assigned, released or referenced document(s).
- " Grantor names (and page number where additional names can be found).
- " Grantee names (and page number where additional names can be found).
- " Abbreviated legal description (and page number for full description).
- " Assessor's Tax Parcel Number(s).
- " Return Address (in Top 3" margin).

#### Additional pages:

- " 1" top, side and bottom margins containing no markings or seals.

#### All pages:

- " No stapled or taped attachments. Each attachment must be a separate page.
- " All notary and other pressure seals must be smudged for visibility.
- " Font size of 8 points or larger.

# TICOR TITLE COMPANY

---

600 SW 39th Street, Ste 100, Renton, WA 98057  
(425)255-7575 FAX (425)255-0285

## COMMITMENT FOR TITLE INSURANCE NO. 6491725-1

**INQUIRIES SHOULD BE MADE TO:**  
UNIT 1 (425)255-7472

Customer Reference:  
/Nisqually Land Trust

Reid Vance [Unit1.Renton@TicorTitle.com](mailto:Unit1.Renton@TicorTitle.com)  
Joe Dorfman

Effective Date: June 25, 2012 at 08:00 AM

### SCHEDULE A

1. Policy or policies to be issued:

2006 ALTA Owner's Policy

Coverage: STANDARD

Liability:

Premium: \$ 0.00

**GENERAL SCHEDULE RATE**

Tax: \$ 0.00

Total: \$ 0.00

Proposed Insured:

**Nisqually Land Trust**

2. The estate or interest in the land described or referred to in this commitment and covered herein is a Fee Simple.
3. CHICAGO TITLE INSURANCE COMPANY agrees to issue on request and on recording of appropriate documents, its policy or policies as applied for, with coverage as indicated, based on the preliminary commitment; title to the property described herein is vested, on the date shown above, in:

**Joan R. Hamilton, as her separate estate, as to the west 40 feet of Parcel A and in the heirs at law of Joseph B. Hamilton, deceased, as to the remainder**

subject only to the exceptions shown herein and to the terms, conditions, and exceptions contained in the policy form.

4. The land referred to in this Commitment is described as follows:

SEE SCHEDULE A CONTINUED

Commitment No. 6491725-1

**LEGAL DESCRIPTION**  
**SCHEDULE A CONTINUED**

The land referred to in this Commitment is described as follows:

Parcel A: (0416231052)

Parcel(s) B, as shown on that certain Boundary Line Adjustment being a portion of the Northeast Quarter of Section 23, Township 16 North, Range 4 East of the W.M., recorded under Auditor's No. 201104145001, in Pierce County, Washington.

Parcel B: (0416231045)

That portion of the following described property: lying inside the Town of Eatonville:

That portion of the northeast quarter of the northeast quarter of Section 23, Township 16 North, Range 4 East of the W.M., in Pierce County, Washington, lying easterly of a strip of land 100 feet wide conveyed to the Town of Eatonville, a municipal corporation, by instruments recorded under Recording Number 2785672 and 2821995;

Except that portion described as follows:

Beginning at the intersection of the center line of the Groe County Road with the east line of Section 14, Township 16 North, Range 4 East of the W.M.; thence north  $82^{\circ}47'$  west along said line of Groe County Road 456.60 feet; thence south  $31^{\circ}56'$  west 354.30 feet; thence south  $10^{\circ}01'$  west 815.26 feet; thence south  $82^{\circ}43'$  east 223.90 feet; thence north  $65^{\circ}54'$  east 223.03 feet; thence north  $56^{\circ}03'$  east 439.37 feet to the east line of Section 23, Township 16 North, Range 4 East; thence north along the east line of said Sections 23 and 14 to the point of beginning;

Also except that portion conveyed to the Town of Eatonville, a municipal corporation, by deed recorded under Recording Number 2785671.

Parcel C: (0416231046)

That portion of the following described property: lying outside the Town of Eatonville:

That portion of the northeast quarter of the northeast quarter of Section 23, Township 16 North, Range 4 East of the W.M., in Pierce County, Washington, lying easterly of a strip of land 100 feet wide conveyed to the Town of Eatonville, a municipal corporation, by instruments recorded under Recording Number 2785672 and 2821995;

Except that portion described as follows:

Beginning at the intersection of the center line of the Groe County Road with the east line of Section 14, Township 16 North, Range 4 East of the W.M.; thence north  $82^{\circ}47'$  west along said line of Groe County Road 456.60 feet; thence south  $31^{\circ}56'$  west 354.30 feet; thence south  $10^{\circ}01'$  west 815.26 feet; thence south  $82^{\circ}43'$  east 223.90 feet; thence north  $65^{\circ}54'$  east 223.03 feet; thence north  $56^{\circ}03'$  east 439.37 feet to the east line of Section 23, Township 16 North, Range 4 East; thence north along the east line of said Sections 23 and 14 to the point of beginning;

Also except that portion conveyed to the Town of Eatonville, a municipal corporation, by deed recorded under Recording Number 2785671.

## SCHEDULE B

Schedule B of the policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company:

### GENERAL EXCEPTIONS:

1. Rights or claims of parties in possession, or claiming possession, not shown by the Public Records.
2. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land.
3. Easements, prescriptive rights, rights-of-way, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any lien, or right to a lien, for contributions to employee benefit funds, or for state workers' compensation, or for services, labor, or material heretofore or hereafter furnished, all as imposed by law, and not shown by the Public Records.
5. Taxes or special assessments which are not yet payable or which are not shown as existing liens by the Public Records.
6. Any lien for service, installation, connection, maintenance, tap, capacity, or construction or similar charges for sewer, water, electricity, natural gas or other utilities, or for garbage collection and disposal not shown by the Public Records.
7. Unpatented mining claims, and all rights relating thereto.
8. Reservations and exceptions in United States Patents or in Acts authorizing the issuance thereof.
9. Indian tribal codes or regulations, Indian treaty or aboriginal rights, including easements or equitable servitudes.
10. Water rights, claims or title to water.
11. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the Effective Date but prior to the date the Proposed Insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.

### SPECIAL EXCEPTIONS:

1. Payment of the real estate excise tax, if required.

The Land is situated within the boundaries of local taxing authority of Town of Eatonville and Unincorporated Pierce County .

Present rate of real estate excise tax as of the date herein is 1.53 percent in the Town of Eatonville and 1.78 percent in Unincorporated Pierce County .

Any conveyance document must be accompanied by the official Washington State Excise Tax Affidavit. The applicable excise tax must be paid and the affidavit approved at the time of the recording of the conveyance documents.

2. General and special taxes and charges, payable February 15, delinquent if first half unpaid on May 1, second half delinquent if unpaid on November 1 of the tax year (amounts do not include interest and penalties):

Year: 2012

Tax Account Number: 0416231052 (Parcel A)

Levy Code: 060

Assessed Value-Land: \$989,000.00

Assessed Value-Improvements: \$0.00

General and Special Taxes:

Billed: \$12,930.35

Paid: \$6,465.17

Unpaid: \$6,465.18

**SCHEDULE B**

(Continued)

3. General and special taxes and charges, payable February 15, delinquent if first half unpaid on May 1, second half delinquent if unpaid on November 1 of the tax year (amounts do not include interest and penalties):

Year: 2012

Tax Account Number: 0416231045 (Parcel B)

Levy Code: 060

Assessed Value-Land: \$80,500.00

Assessed Value-Improvements: \$0.00

General and Special Taxes:

Billed: \$1,072.31

Paid: \$536.15

Unpaid: \$536.16

4. General and special taxes and charges, payable February 15, delinquent if first half unpaid on May 1, second half delinquent if unpaid on November 1 of the tax year (amounts do not include interest and penalties):

Year: 2012

Tax Account Number: 0413231046 (Parcel C)

Levy Code: 631

Assessed Value-Land: \$7,000.00

Assessed Value-Improvements: \$0.00

General and Special Taxes:

Billed: \$107.71

Paid: \$53.85

Unpaid: \$53.86

5. Statement on the Pierce County tax rolls that parcel 0416231046 cannot be sold or subdivided without parcel 0416231045.
6. Community interest of any spouse of Joseph B. Hamilton, other than Joan R. Hamilton, on July 2, 1963, and any matters which may be disclosed by a search of the records against his/her name, unless disposed of on the record.
7. According to easement recorded under Recording Number 201104250102, James B. Hamilton is deceased. The Company found no record in Pierce County Superior Court of a probate for the estate of Joseph Bernard Hamilton.
8. Reservations and exceptions contained in the deed

Grantor: Northern Pacific Railroad Company

Recording No.: 139340

Reserving and excepting from said Lands so much or such portions thereof as are or may be mineral lands or contain coal or iron, and also the use and the right and title to the use of such surface ground as may be necessary for ground operations and the right of access to such reserved and excepted mineral lands, including lands containing coal or iron, for the purpose of exploring, developing and working the land.

The Company makes no representations about the present ownership of these reserved and excepted interests.

Affects: Parcel A

**SCHEDULE B**  
(Continued)

9. Reservations and exceptions contained in the deed

Grantor: Northern Pacific Railroad Company  
Recording No.: 1127894

Reserving and excepting from said Lands so much or such portions thereof as are or may be mineral lands or contain coal or iron, and also the use and the right and title to the use of such surface ground as may be necessary for ground operations and the right of access to such reserved and excepted mineral lands, including lands containing coal or iron, for the purpose of exploring, developing and working the land.

The Company makes no representations about the present ownership of these reserved and excepted interests.

Affects: Parcel A

10. Reservations and exceptions contained in the deed

Grantor: Chicago, Milwaukee, St. Paul and Pacific Railroad Company, a Wisconsin corporation  
Recording No.: 2682267 and 2785669

Reserving and excepting from said Lands so much or such portions thereof as are or may be mineral lands or contain coal or iron, and also the use and the right and title to the use of such surface ground as may be necessary for ground operations and the right of access to such reserved and excepted mineral lands, including lands containing coal or iron, for the purpose of exploring, developing and working the land.

The Company makes no representations about the present ownership of these reserved and excepted interests.

Affects: Parcel A

11. Condition and reservation contained in instrument recorded under Auditor' No. 2785670, executed by Town of Eatonville, as to ingress, egress, drainage and utility service and as to a mill pond being maintained as a mill pond in essentially it's original state for a period of 50 years.

Affects: Parcel A

12. Reservation of all coal, oil, gas and mineral rights, and rights to explore for the same contained in the deed

Grantor: Weyerhaeuser Timber Co., a Washington corporation  
Recording No.: 402730

Affects: Parcels B and C

13. Reservation of all coal, oil, gas and mineral rights, and rights to explore for the same contained in the deed

Grantor: Weyerhaeuser Timber Co., a Washington corporation  
Recording No.: 1126626

Affects: Parcels B and C

**SCHEDULE B**

(Continued)

14. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:  
Granted to: Town of Eatonville  
Purpose: maintain, keep up and make repairs to the water line, pump house and settling tank and to maintain a water system  
Recording Date: May 26, 1955  
Recording No: 1721972  
Affects: Parcel A
15. Easement(s) for the purpose(s) shown below and rights incidental thereto as set forth in a document:  
In favor of: Pacific Telephone and Telegraph Company  
Purpose: poles and anchors, with wires, cables, fixtures and appurtenances  
Recording No: 1189502  
Affects: Parcel A
16. Easement(s) for the purpose(s) shown below and rights incidental thereto as set forth in a document:  
In favor of: power line and telephone line  
Purpose: Town of Eatonville  
Recording No: 2228587  
Affects Parcel A
17. Covenant not to pollute within 100 feet of a well to keep the water supplied from said well free from impurities which might be injurious to public health, contained in instrument recorded under recording number 2228587  
Affects: Parcel A
18. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:  
Granted to: Town of Eatonville  
Purpose: ingress, egress and utilities  
Recording Date: December 16, 1977  
Recording No: 2801264, which is a re-record of 2785671  
Affects: Parcel B
19. Easement(s) for the purpose(s) shown below and rights incidental thereto as set forth in a document:  
In favor of: Town of Eatonville  
Purpose: water pipeline  
Recording Date: November 3, 1987  
Recording No: 8711030057  
Affects: Parcel A
20. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:  
Granted to: Town of Eatonville  
Purpose: slopes  
Recording Date: August 3, 1993  
Recording No: 9308030768  
Affects: Parcel A

**SCHEDULE B**

(Continued)

21. Easement(s) for the purpose(s) shown below and rights incidental thereto as set forth in a document:  
  
In favor of: Town of Eatonville  
Purpose: power pole stabilization guy line and appurtenances  
Recording Date: April 5, 1996  
Recording No: 9604050188  
Affects: Parcel A
22. Easement(s) for the purpose(s) shown below and rights incidental thereto, as granted in a document:  
  
Granted to: State of Washington Department of Transportation  
Purpose: bank roughening log structures  
Recording Date: April 25, 2011  
Recording No: 201104250102  
Affects: Parcel A
23. Covenants, conditions, restrictions, recitals, reservations, easements, easement provisions, dedications, building setback lines, notes and statements, if any, but omitting any covenants or restrictions, if any, including but not limited to those based upon race, color, religion, sex, sexual orientation, familial status, marital status, disability, handicap, national origin, ancestry, or source of income, as set forth in applicable state or federal laws, except to the extent that said covenant or restriction is permitted by applicable law, as set forth on Boundary Line Adjustment Number 201104145001.
24. Right, title and interest of the Town of Eatonville, grantee in deed executed by Puget Sound National Bank of Tacoma, as trustee, recorded under Auditor's No. 1721974 as to water system, composed of the enclosing gate, feeder lines, pipe and lines to the Town reservoir and the pump house.
25. Fence lines do not conform to property lines, as delineated on Survey No. 200705042018, which supercedes Survey No. 200402195003.  
  
Affects: Parcel A
26. Any question that may arise due to shifting and changing in the course or boundaries of Mashell River.
27. Rights of the State of Washington in and to that portion, if any, of the Land which lies below the line of ordinary high water of Mashell River.
28. Any prohibition or limitation of use, occupancy or improvement of the Land resulting from the rights of the public or riparian owners to use any portion which is now or was formerly covered by water.
29. Paramount rights and easements in favor of the United States for commerce, navigation, fisheries and the production of power.

**END OF SPECIAL EXCEPTIONS**

**SCHEDULE B**  
(Continued)

**NOTES:**

- A. The language contained in the printed Exceptions from coverage and Conditions and Stipulations of the Policy committed for may be examined by inquiry at the office which issued the Commitment, and a specimen copy of the insurance Policy Form(s) referred to in this Commitment will be furnished promptly upon request.
- B. Investigation should be made to determine if there are any service, installation, maintenance, or connection charges for sewer, water, electricity or Metro Sewer Treatment Capacity Charge.
- C. In the event the transaction fails to close and this commitment is cancelled, a fee will be charged to comply with the State Insurance Code and the filed schedule of this Company.
- D. Notwithstanding anything to the contrary in this Commitment, if the policy to be is other than an ALTA Owner's Policy (6/17/06) or ALTA Loan Policy (6/17/06), the policy may not contain an arbitration clause, or the terms of the arbitration clause may be different from those set forth in this Commitment. If the policy does contain an arbitration clause, and the Amount of Insurance is less than the amount, if any, set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties.
- E. Instruments necessary to create the estate or interest to be insured must be properly executed, delivered and duly filed for record.
- F. The sketch being provided in connection with this transaction is for the purpose of showing the approximate general location of the premises under search without an actual survey. Ticor Title assumes no liability in connection with the same.
- G. Any documents being executed in conjunction with this transaction must be signed in the presence of an authorized Company employee, an authorized employee of an agent, an authorized employee of the insured lender, or by using Bancserv or other approved third-party service. If the above requirement cannot be met, please call the Company at the number provided in this report.
- H. As part of Ticor Title Company's commitment to the environment, we encourage the paperless distribution of our products whenever possible. To help conserve natural resources, we will automatically issue the forthcoming original policy(ies) electronically.

Please provide us with a current e-mail address for the new owner and/or lender prior to closing or by emailing [WAPolicy@ticortitle.com](mailto:WAPolicy@ticortitle.com). Hard copy versions may be issued upon request.

- I. Your application for title insurance was placed by reference to only a street address or tax identification number. Based on our records, we believe that the legal description in this report covers the parcel(s) of Land that you requested. If the legal description is incorrect, the seller/borrower must notify the Company and/or the settlement company in order to prevent errors and to be certain that the correct parcel(s) of Land will appear on any documents to be recorded in connection with this transaction and on the policy of title insurance.

- I. Note: FOR INFORMATIONAL PURPOSES ONLY:

The following may be used as an abbreviated legal description on the documents to be recorded, per Amended RCW 65.04.045. Said abbreviated legal description is not a substitute for a complete legal description within the body of the document:

NE of NE quarter of 23-16N-4E

**SCHEDULE B**

(Continued)

- J. NOTE : DOCUMENT RECORDING FEES AS OF APRIL 16, 2012  
Recording charge for a RESPA transaction (all transfer and loan documents):  
RESPA Residential Sale and Purchase \$172.00  
RESPA Residential Loan/Refinance \$100.00  
RECORDING CHARGES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Note: Recording charge (per document) for a Non-RESPA transaction:  
First page of document \$63; \$1 for each additional page

NOTE :

Part of the RESPA Rule to Simplify and Improve the Process of Obtaining Mortgages and Reduce Consumer Settlement Costs requires the settlement agent to disclose the agent and underwriter split of title premiums, including endorsements as follows:

Line 1107 is used to record the amount of the total title insurance premium, including endorsements, that is retained by the title agent. Ticor Title Company retains 88% of the total premium and endorsements.

Line 1108 used to record the amount of the total title insurance premium, including endorsements, that is retained by the title underwriter. Chicago Title Insurance Company retains 12% of the total premium and endorsements.

mah 07/02/2012

**END OF SCHEDULE B**

# TICOR TITLE COMPANY

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600 SW 39th Street, Ste 100, Renton, WA 98057  
(425)255-7575 FAX (425)255-0285

Title Unit: UNIT 1  
Order No.: 6491725  
Your No.: /Nisqually Land Trust

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## Commitment for Title Insurance

CHICAGO TITLE INSURANCE COMPANY, a Nebraska corporation ("Company"), for a valuable consideration, commits to issue its policy or policies of title insurance, as identified in Schedule A, in favor of the Proposed Insured named in Schedule A, as owner or mortgagee of the estate or interest in the land described or referred to in Schedule A, upon payment of the premiums and charges and compliance with the Requirements; all subject to the provisions of Schedule A and B and to the Conditions of this Commitment.

This Commitment shall be effective only when the identity of the Proposed Insured and the amount of the policy or policies committed for have been inserted in Schedule A by the Company.

All liability and obligation under this Commitment shall cease and terminate 180 days after the Effective Date or when the policy or policies committed for shall issue, whichever first occurs, provided that the failure to issue the policy or policies is not the fault of the Company.

The Company will provide a sample of the policy form upon request.

IN WITNESS WHEREOF, Chicago Title Insurance Company has caused its corporate name and seal to be affixed by its duly authorized officers on the date shown in Schedule A.

CHICAGO TITLE INSURANCE COMPANY

By:  President

ATTEST

 Secretary

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# TICOR TITLE COMPANY

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600 SW 39th Street, Ste 100, Renton, WA 98057  
(425)255-7575 FAX (425)255-0285

## CONDITIONS

1. The term mortgage, when used herein, shall include deed of trust, trust deed, or other security instrument.
  2. If the proposed Insured has or acquired actual knowledge of any defect, lien, encumbrance, adverse claim or other matter affecting the estate or interest or mortgage thereon covered by this Commitment other than those shown in Schedule B hereof, and shall fail to disclose such knowledge to the Company in writing, the Company shall be relieved from liability for any loss or damage resulting from any act of reliance hereon to the extent the Company is prejudiced by failure to so disclose such knowledge. If the proposed Insured shall disclose such knowledge to the Company, or if the Company otherwise acquires actual knowledge of any such defect, lien, encumbrance, adverse claim or other matter, the Company at its option may amend Schedule B of this Commitment accordingly, but such amendment shall not relieve the Company from liability previously incurred to paragraph 3 of these Conditions.
  3. Liability of the Company under this Commitment shall be only to the named proposed Insured and such parties included under the definition of Insured in the form of policy or policies committed for and only for actual loss incurred in reliance hereon in undertaking in good faith (a) to comply with the requirements hereof, or (b) to eliminate exceptions shown in Schedule B, or (c) to acquire or create the estate or interest or mortgage thereon covered by this Commitment. In no event shall such liability exceed the amount stated in Schedule A for the policy or policies committed for an such liability is subject to the insuring provisions and Conditions and the Exclusions from Coverage of the form of policy or policies committed for in favor of the proposed Insured which are hereby incorporated by reference and are made a part of this Commitment except as expressly modified herein.
  4. This Commitment is a contract to issue one or more title insurance policies and is not an abstract of title or a report of the condition of title. Any action or actions or rights of action that the proposed Insured may have or may bring against the Company arising out of the status of the title to the estate or interest or the status of the mortgage thereon covered by this Commitment must be based on and are subject to the provisions of this Commitment.
  5. *The policy to be issued contains an arbitration clause. All arbitrable matters when the Amounts of Insurance is \$2,000.00 or less shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. You may review a copy of the arbitration rules at <<http://www.alta.org/>>*
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Fidelity National Financial, Inc.  
**Privacy Statement**

Fidelity National Financial, Inc. and its subsidiaries ("FNF") respect the privacy and security of your non-public personal information ("Personal Information") and protecting your Personal Information is one of our top priorities. This Privacy Statement explains FNF's privacy practices, including how we use the Personal Information we receive from you and from other specified sources, and to whom it may be disclosed. FNF follows the privacy practices described in this Privacy Statement and, depending on the business performed, FNF companies may share information as described herein.

**Personal Information Collected**

We may collect Personal Information about you from the following sources:

- Information we receive from you on applications or other forms, such as your name, address, social security number, tax identification number, asset information, and income information;
- Information we receive from you through our Internet websites, such as your name, address, email address, Internet Protocol address, the website links you used to get to our websites, and your activity while using or reviewing our websites;
- Information about your transactions with or services performed by us, our affiliates, or others, such as information concerning your policy, premiums, payment history, information about your home or other real property, information from lenders and other third parties involved in such transaction, account balances, and credit card information; and
- Information we receive from consumer or other reporting agencies and publicly recorded documents.

**Disclosure of Personal Information**

We may provide your Personal Information (excluding information we receive from consumer or other credit reporting agencies) to various individuals and companies, as permitted by law, without obtaining your prior authorization. Such laws do not allow consumers to restrict these disclosures. Disclosures may include, without limitation, the following:

- To insurance agents, brokers, representatives, support organizations, or others to provide you with services you have requested, and to enable us to detect or prevent criminal activity, fraud, material misrepresentation, or nondisclosure in connection with an insurance transaction;
- To third-party contractors or service providers for the purpose of determining your eligibility for an insurance benefit or payment and/or providing you with services you have requested;
- To an insurance regulatory authority, or a law enforcement or other governmental authority, in a civil action, in connection with a subpoena or a governmental investigation;
- To companies that perform marketing services on our behalf or to other financial institutions with which we have joint marketing agreements and/or
- To lenders, lien holders, judgment creditors, or other parties claiming an encumbrance or an interest in title whose claim or interest must be determined, settled, paid or released prior to a title or escrow closing.

We may also disclose your Personal Information to others when we believe, in good faith, that such disclosure is reasonably necessary to comply with the law or to protect the safety of our customers, employees, or property and/or to comply with a judicial proceeding, court order or legal process.

Disclosure to Affiliated Companies – We are permitted by law to share your name, address and facts about your transaction with other FNF companies, such as insurance companies, agents, and other real estate service providers to provide you with services you have requested, for marketing or product development research, or to market products or services to you. We do not, however, disclose information we collect from consumer or credit reporting agencies with our affiliates or others without your consent, in conformity with applicable law, unless such disclosure is otherwise permitted by law.

Disclosure to Nonaffiliated Third Parties – We do not disclose Personal Information about our customers or former customers to nonaffiliated third parties, except as outlined herein or as otherwise permitted by law.

**Confidentiality and Security of Personal Information**

We restrict access to Personal Information about you to those employees who need to know that information to provide products or services to you. We maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard Personal Information.

**Access to Personal Information/**

**Requests for Correction, Amendment, or Deletion of Personal Information**

As required by applicable law, we will afford you the right to access your Personal Information, under certain circumstances to find out to whom your Personal Information has been disclosed, and request correction or deletion of your Personal Information. However, FNF's current policy is to maintain customers' Personal Information for no less than your state's required record retention requirements for the purpose of handling future coverage claims.

For your protection, all requests made under this section must be in writing and must include your notarized signature to establish your identity. Where permitted by law, we may charge a reasonable fee to cover the costs incurred in responding to such requests. Please send requests to:

Chief Privacy Officer  
Fidelity National Financial, Inc.  
601 Riverside Avenue  
Jacksonville, FL 32204

**Changes to this Privacy Statement**

This Privacy Statement may be amended from time to time consistent with applicable privacy laws. When we amend this Privacy Statement, we will post a notice of such changes on our website. The effective date of this Privacy Statement, as stated above, indicates the last time this Privacy Statement was revised or materially changed.

A topographic map showing contour lines and a dashed path. The map is oriented vertically with the top of the page at the top. The contour lines are blue and represent elevation. A dashed blue line indicates a path or boundary that winds through the terrain, starting from the top left and moving generally downwards and to the right. The terrain features several peaks and valleys, with the highest elevations indicated by the most closely spaced contour lines.

**APPENDIX C**  
**Calibre 2011 Phase II ESA**

Phase II  
Environmental Site Assessment of  
Former Eatonville Lumber Mill Site  
(10 Acre Parcel of the Larger Property)

Prepared for:  
CenterPoint Church  
Eatonville, Washington

Prepared by  
CALIBRE Systems, Inc.  
Bellevue, Washington

March 10, 2011

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## List of Acronyms

This report presents various site data and summaries using many industry-standard acronyms and abbreviations including some of the following:

ACM	Asbestos containing material
ARARs	Applicable or Relevant and Appropriate Requirements
bgs	Below ground surface
COCs	Chemicals of concern
cPAHs	carcinogenic Polycyclic Aromatic Hydrocarbons
Ecology	Washington State Department of Ecology
ESA	Environmental Site Assessment
FS	Feasibility Study
HASP	Health and safety plan
ug/kg	Micrograms per kilogram (for soil typically)
ug/L	Micrograms per liter (for water typically)
mg/kg	Milligrams per kilogram (for soil typically)
mg/L	Milligrams per liter (for water typically)
MRL	Method reporting limit
MDL	Method detection limit
MTCA	Model Toxics Control Act
NGVD	National Geodetic Vertical Datum
PAHs	Polycyclic aromatic hydrocarbons
PCBs	Polychlorinated biphenyls
PID	Photo ionization detector
QA/QC	Quality Assurance/Quality Control
REC	Recognized environmental concern
RI	Remedial Investigation
SAP	Sampling and analysis plan
SOPs	Standard operating procedures
TEC	Toxicity equivalent concentration
TEF	Toxicity equivalence factor
TTEC	Total Toxicity Equivalent Concentration
TPH-Dx	Total petroleum hydrocarbons – diesel range
TPH-HCID	Total petroleum hydrocarbons - hydrocarbon identification
USCS	Unified Soil Classification System
USGS	United States Geological Survey
VOCs	Volatile organic compounds
WAC	Washington Administrative Code

## 1.0 EXECUTIVE SUMMARY

This report presents the findings of a Phase II Environmental Site Assessment (ESA) conducted at the former Eatonville Lumber Company Mill site. The project site (Site) is a 10-acre parcel that is a subset of a larger property, located southeast of Madison Avenue in Eatonville, Washington. The Eatonville Lumber Company sawmill operation was established in 1907 and continued operation until the mid 1950s. The property was acquired by the Hamilton family in 1959. The property was used as a chicken farm until the 1990s.

CenterPoint Church is the prospective buyer of the parcel located within the south west portion of the larger property. This Phase II ESA has been prepared for use by CenterPoint Church. CALIBRE has performed this Phase II ESA in general accordance with ASTM E 1093 (*Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process*).

The scope completed in this Phase II ESA included:

- Reviewing historical inspections and environmental studies of the Site including the prior Phase I ESA.
- Interviews and Site inspection.
- Collecting/screening/analyzing soil and groundwater samples from areas of recognized environmental concern (RECs) derived from the aforementioned review.
- Evaluating the historical and current sampling results to prepare this ESA report.

The Phase I study identified several RECs on the property. Based on a review of the historical information, recent interviews regarding Site operations and inspection, the Phase II ESA focused on the prior RECs identified in the Phase I ESA. The REC list and appropriate sampling analytes to include were expanded based on the site reconnaissance and interviews.

This Phase II ESA identified soil contamination above MTCA criteria in one REC (near the former Powerhouse). The soil contamination in the area of the former Powerhouse appears to be associated with a visible ash layer in the soil. A slightly deeper soil sample collected beneath the ash layer was clean, as were groundwater samples collected in the area. The remaining ash in Powerhouse ovens was sampled and it also contains elevated levels of metals.

In addition, a portion of the rubble pile in the area of the former drying kiln has been identified as asbestos containing material (ACM).

For these two RECs, the presence of regulated materials represents an environmental liability and consideration should be given to the management and/or removal of these materials.

As presented in prior reports by others and discussed herein, a hydrocarbon release at an off-Site location northeast of the purchase parcel has been documented and the sampling in this investigation focused on groundwater sampling near the property boundary of the purchase parcel. Based on these conditions (and non-detect values closer to the purchase property boundary), it does not appear that the known AST release will have an adverse impact on the intended development of the Site (purchase parcel).

Regarding the other site RECs identified in the Phase I ESA: Based on the judgment of the environmental professionals completing this work, the data presented herein provide sufficient information to support an opinion that there is no reasonable basis for suspecting the disposal or release of hazardous substances or petroleum products at the other RECs investigated.

## 2.0 INTRODUCTION

This report presents the findings of a Phase II Environmental Site Assessment (ESA) conducted at the former Eatonville Lumber Company Mill Site. The project site (Site) is a 10-acre parcel that is part of a larger property, located southeast of Madison Avenue in Eatonville, Washington. Figure 1 depicts the Site location. The Site lies in Section 23, Township 16 North, Range 04 East and is owned by Joan Hamilton.

In the early 20<sup>th</sup> century the area consisted of undeveloped forest. The Eatonville Lumber sawmill operation was established in 1907 and continued operation until the mid 1950s. The property was acquired by the Hamilton family in 1959. The property was used as a chicken farm until the 1990s.

### 2.1 Objectives

CenterPoint Church is the prospective buyer of the parcel located within the south west portion of the larger property. CenterPoint intends to redevelop the parcel to include a church, parking area, and play fields. This Phase II ESA was completed in January 2011 in support of the property transaction. A Phase I ESA was completed at the site in 2003.

The scope of this Phase II ESA included:

- Reviewing historical inspections and environmental studies of the Site.
- Interviews and Site inspection.
- Collecting/screening/analyzing soil and groundwater samples from areas of recognized environmental concern (RECs) derived from the aforementioned review.
- Evaluating the historical and current sampling results to prepare this ESA report.

The Phase I study identified several RECs<sup>1</sup> on the property. Based on a review of the historical information, recent interviews regarding Site operations and inspection, the Phase II ESA focused on the prior RECs identified in the Phase I ESA.

Based on the Phase I ESA, twelve (12) RECs are situated directly on or in close proximity to the subject parcel (Site) and were further investigated to determine if a release of contaminants into the soil or groundwater has occurred on the Site. In addition, CALIBRE inspected the Former Planning Mill (test pits only, no sampling) and also sampled/inspected one additional historical transformer area located near the southern property boundary (this location was not previously identified as a REC in the 2003 Phase I study). This additional transformer location was identified by Mr Dan Hamilton in a site walk conducted on 31 December 2011. These RECs are depicted on Figure 2 and cross-referenced and further described in Table 1.

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<sup>1</sup> Following the definitions from ASTM Standard E1527-05 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, the term recognized environmental conditions (RECs) is used to describe 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 a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do 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.

Several of the RECs identified in the Phase I study are located off-site (i.e., the 10- acre parcel related to the subject property transaction). These off-site RECs were not investigated in this study.

It is important to note that other materials/debris piles are present (and visible) on the Site that will need to be managed in any future site development. These include foundations and wood debris from prior buildings/structures. These other materials have not been considered a REC and are readily visible; future site development needs to include processes for management of these other materials present on the Site.

## **2.2 Organization**

This ESA report is organized as follows:

- Section 2 summaries the general Site history and project objectives.
- Section 3 summaries the Site conditions and prior sampling.
- Section 4 summaries the sampling rationale and results from sampling completed in this study, along with recommendations.
- Section 5 describes the required limitations for the data and recommendations described in this report.
- Section 6 presents the list of references.

Appendices include:

- Laboratory data sheets (Appendix A);
- Test pit logs with field screening (Appendix B); and
- Soil boring logs (Appendix C).

## **3.0 SITE BACKGROUND**

### **3.1 Site Description and Features**

The Eatonville Lumber Company sawmill operation was established in 1907 and continued operation until the mid 1950s. The sawmill operation was served by several railroad spurs. Following closure of the mill, the property was acquired by Hamilton family in 1959. The property was used as a chicken farm until 1990s.

#### **3.1.1 Current Site Conditions**

Most of the buildings from the former mill operations have been removed. Foundations remain for several buildings near the southern parcel boundary (the former drying kiln, the powerhouse). Off the southern parcel boundary several small buildings exist and the foundation for the former burner is still present. All of the prior railroad spurs appear to have been removed. Historical photographs of selected mill operations are available in the University of Washington archives. A good base map of the former Eatonville Lumber Co. (prepared by General Appraisal Company dated 1944), was provided by Dan Hamilton. The overall facility layout and general details of the historical photos are consistent with the 1944 base map.

#### **3.1.2 Site Geology/Hydrogeology**

The Site setting is within an alluvial valley of the Mashel River. The Site is located at an elevation of approximately of 800 feet above sea level and is located approximately 500 feet north of the Mashel River. The Pierce County Soil Survey has classified soils in this area as Scamman Silt Loam and Barneston gravelly coarse sandy loam formed on glacial outwash. The geologic logging of test pits and boring logs are consistent with these prior classifications. Some areas of the Site indicate a surface layer of silt loam soil. All deeper samples indicate a glacial outwash.

Based on maps presented in Water Supply Bulletin No. 22, (Walters and Kimmel, 1968), the surface geology of this area consists of the Quaternary Alluvium. The alluvium is generally a mix of well sorted clays, silts, sands, and gravels laid down recent streams. Groundwater was encountered at approximately 16 feet bgs. Groundwater flow is likely influenced by the Site's close proximity to the Mashel River and local groundwater is expected to discharge to the river (or the adjacent Mill Pond), consistent with typical groundwater flow paths in alluvial valleys. However, determining the exact groundwater gradient was beyond the scope of this project.

### **3.2 Prior Site Investigations**

This section briefly summarizes the results of prior studies at the Site. The prior studies and reports were used as the basis to plan the sampling conducted in the Phase II ESA and sampling results are presented in section 4.

#### **3.2.1 Phase I ESA, GeoEngineers 2003**

GeoEngineers completed a Phase I ESA for the property owner (Mr. Joseph Hamilton) in 2003. The Phase I study identified several RECs on the property. The 2003 Phase I ESA covered a larger area (approximately 45 acres) than the 10-acre parcel considered for purchase by CenterPoint. Twelve (12) RECs identified in the 2003 Phase I ESA are situated directly on or in close proximity to the subject parcel (Site). The 2003 Phase I ESA recommended further investigation to confirm or refute the premise that a release of contaminants into the soil or groundwater has occurred on the Site. No sampling was completed as part of the Phase I ESA.

### 3.2.2 Limited Phase II ESA, E3RA 2006

E3RA, Inc. (E3RA) was retained by LeRoy Surveyor's & Engineers, Inc. to conduct a Limited Phase II ESA of the former Eatonville Lumber Company property in 2006. The purpose of this assessment was to evaluate RECs identified in the GeoEngineers2003 Phase I ESA.

The scope of E3RA's investigation included the following tasks:

- 1) Identify the approximate location of RECs/potential RECs identified by GeoEngineers based upon field observations and the site drawing provided within GeoEngineers 2003 Phase I ESA;
- 2) Determine which of the RECs/potential RECs identified by GeoEngineers remain a concern based on current Site conditions;
- 3) Evaluate and, if appropriate, excavate (i.e., test pit) to determine the likelihood of subsurface contamination associated with selected RECs;
- 4) Field screening of soil samples from excavated RECs using a hand-held, direct-reading photoionization detector (PID);
- 5) Collection and analysis of soil samples from excavations deemed to be suspect based upon visual and olfactory observations and field screening to further evaluate subsurface contamination;
- 6) Conduct a survey to identify readily accessible suspect asbestos-containing building materials (ACM) buildings materials that may be present on portions of the Site of interest to LeRoy Surveyor's & Engineers, Inc.;
- 7) Prepare a summary report that describes Site observations, exploration methods, analytical results, and conclusions with respect to current environmental conditions.

A complete copy (i.e., the full report with figures) of the E3RA 2006 report was not located. Based on the portions that have been reviewed (all text and tables), E3RA dug multiple test pits and used field screening (visual, smell, PID readings) at most RECs. Soils samples were collected for laboratory analysis for samples collected near the fuel tank. No other environmental sampling was completed as part of this 2006 limited Phase II ESA. Asbestos sampling of selected building materials was completed and reported under a separate report.

E3RA excavated test pits the base of the tank 10 feet below ground surface (bgs) on the west, east, and south sides and to a depth of 8 feet below the bottom of the tank (18 feet bgs) on the north side of the tank (a total of 4 test pits near the tank). The soil near the bottom of the north test pit (at 18 feet bgs) was visually moisture saturated suggesting it was near the water table. Soil samples were collected from all 4 test pits at the base of the tank (10 feet bgs). The laboratory analytical results exceeded the Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for diesel and heavy oil range petroleum hydrocarbons. The location of this former fuel tank is outside of the 10-acre parcel considered for purchase by CenterPoint.

### 3.2.2 Tank Decommissioning and Sampling, Robinson and Noble 2010

A 2010 report by Robinson and Noble describes recent work related to tank decommissioning and sampling for the former fuel tank located to the north of the 10-acre parcel. The concrete tank was pumped empty, cleaned, rinsed and demolished. Decommissioning procedures and related activities were conducted in general accordance with Tacoma-Pierce County Health Department (TPCHD), Pierce County Fire Marshal, and Ecology guidance and regulations for tanks.

Following tank demolition, Robinson Noble, Inc. supervised/observed the excavation of ten test pits around the former tank location (varying in depth from 7 to 20 feet bgs). Nine of the ten test pits encountered evidence of fuel contamination. Soil samples collected from six test pits confirmed the presence of residual fuel contamination above MTCA Method A cleanup levels of 2,000 mg/kg. Fuel residuals as free product were observed in two test pits. Groundwater samples were not collected. One soil sample was also analyzed for volatile organic compounds (VOCs by Method 8260C) and another for polynuclear aromatic hydrocarbons (PAHs) by Method 8270D). The VOCs detected in the single soil sample included low levels (i.e., below typical regulatory or other health-based thresholds) of several light-end hydrocarbon compounds (ethylbenzene, naphthalene, isopropyltoluene, isopropylbenzene, n-nutylbenzene, and others).

The Robinson Noble report identifies the tank as a former Bunker C fuel tank based on the characteristics of the weathered oil samples (collected with the soil sampling). Railroad locomotives commonly used Bunker C fuel in the early 1900's after introduction of the Von-Boden Ingalls burner. The interpretation as Bunker C may be correct; however, Bunker C is a very thick viscous hydrocarbon that must be heated to make it pumpable/flowable. Tanks for Bunker C storage/transfer must be heated (typically with a steam jacket and up to nearly 150 °F) and most tanks are elevated so that gravity drainage can be used for transfer. At typical ambient ground temperatures (~ 50 °F) Bunker C can congeal into a tarry semi-solid that cannot be pumped (these same properties typically prevent it from migrating very far in soil, it is too thick/viscous).

The prior soil sampling by E3RA (directly at the tank) identified both diesel range and heavy oil hydrocarbons. The 2010 sampling detected several light-end VOCs (from the single soil sample analyzed for VOCs). These data suggest that the historical fuel release may have included a portion or component of diesel.

## **4.0 SAMPLING COMPLETED IN THIS PHASE II ESA**

### **4.1 Site Reconnaissance**

The field sampling was preceded by an inspection of the area encompassing the former buildings and RECs to establish the facility layout and identify any areas where visual evidence suggested the likelihood of historical facility practices that could have affected soil or groundwater quality. CALIBRE inspected the facility on 31 December 2010 with Mr. Dan Hamilton. A copy of the 1994 base map was provided before the Site reconnaissance and used in the inspection.

In the Site reconnaissance Mr. Hamilton identified the following features:

- 1) The position of the former machine shop (based on the remaining road adjacent to it).
- 2) The former dry kiln (based on the remaining foundation and debris).
- 3) The position of the former fuel vault. The former fuel vault was an elevated structure designed to use sawdust as fuel in the Powerhouse based on the mill layout, historical photos (separation cyclones on top of the fuel vault), the style/size of doors on the burner ovens (where sawdust was blown into the combustion chambers), and proximity adjacent to the Powerhouse.
- 4) The former Powerhouse which used hog fuel to generate steam heat for the drying kiln (based on the remaining foundation/debris and ovens which remain).
- 5) An area near the southern parcel boundary where three pole-mounted transformers were previously present (they have since been removed).

### **4.2 Interviews**

Three people were interviewed (by phone or at the Site) regarding historical operations.

- 1) Mr. Dan Hamilton discussed his knowledge of the property and prior mill buildings based on growing up on the property (after the mill was closed). The details are described in the Site reconnaissance.
- 2) Mr. Glen Simons (ph 360-832-6801) discussed his recollection of the Eatonville mill operations from the early 1950's. Mr Simons noted that that he did not recall any type of wood preservative/treatment operations and he was not aware of any waste ash disposal on-Site. Waste ash from the Powerhouse and Burner were removed periodically and he speculated that it was shipped off-site to a landfill.
- 3) Mr. Brian Wise (ph 253-495-8503) discussed his general knowledge of typical locomotive fuels and common wood-fired boiler operations for steam plants. Mr. Wise (General Manager, Mount Rainier Scenic Railroad in Elbe) has no first-hand knowledge of the Eatonville Mill operation but is familiar with historical locomotives and also described the typical operation a of hog-fuel steam plant for mill operations based on other facilities.

### **4.3 Establishing the Position of Previously Identified RECs**

As noted in the Site description, the prior mill buildings, railroad spurs and some building foundations on the parcel have been removed over the last 20 years and most of the RECs no longer exist as visible structures. A portion of the Site is covered with brush (blackberry bushes and scotch broom), some areas have been cleared, and some foundations remain. Identifying

an accurate spatial position of the prior RECs was identified as the first step so that any samples collected are focused on the correct area.

Information used in to identify REC positions included:

1. Site inspection (one with Dan Hamilton who had knowledge of Site conditions before many buildings were removed);
2. A current aerial photograph (from Google earth);
3. The conceptual development plan from TGB Architects to identify the footprint of the area considered for development;
4. Other historical aerial photographs (1989, others);
5. The base map presented in the 2003 Phase I report; and
6. A 1944 facility map of the Eatonville Lumber Co.

All of the aerial photos and maps were imported as CAD layers which are created at consistent scales and are geo-referenced to the former burner location (a readily identifiable feature in all maps and photos). Using the CAD map with geo-referenced photos a simple site coordinate system was established where the distances to each REC could be measured from a common reference point (e.g., northings and eastings from a clearly visible feature; corners of the foundation for the former drying kiln).

#### **4.4 Sampling Approach and Rationale**

Table 1 presents the sampling approach and analyses for the initial 12 identified RECs on Site (plus the tank to the north and one more transformer for 14 total) that were determined to be located within the Site or in close proximity. The sampling was planned and implemented in two stages. The first stage collected soil samples and corresponding analyses of those samples. The general soil sampling approach in most of the larger footprint RECs consisted of inspecting soil in the area for evidence of release (distressed vegetation, staining of soil, etc), digging 3 test pits and screening the soil in each test pit using; 1) visual inspection, 2) headspace screening and 3) sheen test screening procedures. Based on the screening tests, one test pit was selected from each REC (If applicable) for collection of a soil sample for necessary analyses. A similar soil sampling approach was used for smaller RECs (former oil houses, former toilet, former transformers) except that only one test pit was excavated (all were considered to be accurately located based on prior maps and remaining Site features/foundations). All soil samples were planned as biased samples, i.e., sample locations were selected as those most likely to have a past release based on prior use and/ or inspection/field screening.

The second stage was implemented two weeks after the first stage (to allow for receipt and review of the soil sampling data). The second stage of the sampling used a Probe drill rig to collect groundwater samples. As summarized in Table 1, four groundwater samples were collected near the Northeast portion of the Site to evaluate if the fuel release (Bunker oil or any other type) from the AST impacted groundwater on the Site. Additionally, one more location near the former powerhouse included groundwater sampling based on the soil sampling results.

As a part of the investigation, a careful visual inspection of several Site RECs was performed. Visual examination indicated the presence of potential asbestos containing materials (ACM) in the debris piles of the former drying kilns. Prior sampling indicated that some debris that may contain asbestos. Based on the prior data, the entire debris pile for the former drying kilns was inspected. This inspection indicated that ACM is only present on bricks/debris from the two end walls (to the east and west) of the former drying kilns. The ACM is an asphalt or tar-like matrix that was likely used as vapor barrier for the drying kiln. The interior walls (rubble) do not contain

ACM and the north and south end walls were moveable doors to move wood units through the kilns to the planning mill. Each bay of the former drying kiln (6 total) was inspected from end to end, and the results were consistent (ACM was only observed on the two end walls, not the larger volume of rubble from interior walls).

#### 4.5 Phase II Sampling and Analytical Results

A total of nineteen soil samples were collected and analyzed for target analytes (see Table 2 Soil Samples):

- Eight of the soil samples were analyzed for Hydrocarbon Identification (NWTPH-HCID<sup>2</sup>) including diesel- and oil-range hydrocarbons.
- Six of the soil samples were analyzed for metals using EPA method 6010 and one added sample of ash was analyzed for metals using a TCLP extraction procedure.
- Two of the soil samples were analyzed for PCBs using EPA method 8082.
- Two of the soil samples were analyzed for volatiles using EPA method 8260C.

Laboratory results for these analyses are summarized in Figure 2 and in Table 3 (HCID analysis), Table 4 (metals analysis), Table 5 (PCB analysis), and Table 6 (VOC analysis). The laboratory data sheets are presented in Appendix A. The test pit logs associated with each area investigated are presented in Appendix B.

A total of nine groundwater samples from five locations were collected and analyzed for target analytes (see Table 7 Groundwater Samples).

- Five of the groundwater samples were analyzed for Hydrocarbon Identification (NWTPH-HCID).
- Two of the groundwater samples were analyzed for metals using EPA method 6010 (one totals metals the other dissolved).
- One groundwater sample was analyzed for volatiles using EPA method 8260C.
- One groundwater sample was analyzed for nitrate/nitrite using EPA method 300.

Laboratory results for these analyses are summarized in Figure 2 and in Table 8 (HCID analysis), Table 9 (metals analysis), Table 10 (VOC analysis), and Table 11 (nitrate/nitrite analysis). The laboratory data sheets are presented in Appendix A. The boring logs associated with the drilling to collect groundwater samples are presented in Appendix C.

##### 4.5.1 QA/QC for Phase II Sampling

###### Field QA/QC

The project staff reviewed documentation including sample logs, custody forms, and field logs prior to samples being delivered to the off-site laboratory. Review was done for completeness, accuracy, and consistency. No discrepancies were encountered.

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<sup>2</sup> This method is described as both a qualitative and semi-quantitative procedure. It is used for soil or water samples where the specific petroleum products are unknown and/or when multiple types of petroleum products may be present. While this method is intended to be primarily qualitative (identification of the presence or absence of hydrocarbons and identification of the type of hydrocarbon present) it can also be used for quantitative analysis for heavier hydrocarbons. The extraction procedure in this method is identical to that found in NWTPH-Dx (semi-volatile petroleum products, i.e. from kerosene through heavy fuel oils), and the concentration of these analytes can be quantified using this extract.

#### Chain-of-Custody

A chain-of-custody form accompanied samples submitted to the laboratory. Chain-of-custody forms were in order as noted in the analytical narrative from the analytical laboratory.

#### Laboratory QA/QC

A narrative regarding quality assurance and quality control is provided with the laboratory analysis reports. Quality control, as reported the analytical laboratory, was within acceptable limits.

Based on the sampling procedures, data review, and QA/QC described above, the sampling data are suitable for the intended use.

#### 4.5.2 Basis for Relevant Comparison Criteria

The Initiative 97 Model Toxics Control Act (MTCA) was passed in 1988 and became law in March 1989. Ecology adopted rules to implement the MTCA (WAC 173-340) in 1991 with subsequent rule revisions in 1996 and 2001. The former Eatonville Mill site is not a MTCA designated site, however the MTCA criteria are the most logical metrics to use for comparison of Site sampling data with the range of potential standards that may be applicable.

Under the MTCA procedures for establishing cleanup levels, the first consideration is to identify existing promulgated standards which have been established for protection of public health and ecological receptors (i.e., typical examples for water depend on the exposure scenario and include Maximum Contaminant Levels [MCLs established under the Safe Drinking Water Act] and Ambient Water Quality Criteria [AWQCs established under the Clean Water Act]). A number of promulgated Federal standards exist for water, but few exist for soil. The MTCA Method A/B standards are based on residential exposure scenarios and include a goal of no greater than a  $10^{-6}$  risk and Hazard Index (HI) < 1. The MTCA Method C standards are based on industrial exposure scenarios and include a goal of no greater than a  $10^{-5}$  risk and HI < 1. Under the MTCA, added modifying factors include that cleanup goals should be no less than practical quantitation limits (PQLs), and no less than the 90 percentile of background distributions of naturally occurring substances (such as metals). A short list of relevant MTCA Method A criteria for soil and unrestricted land use are presented below (from WAC 173-340-740):

Arsenic	20 mg/kg
Cadmium	2 mg/kg
Chromium VI	19 mg/kg
Chromium III	2,000 mg/kg
Lead	250 mg/kg
PCB Mixtures	1 mg/kg
Total Petroleum Hydrocarbons	
Diesel Range Organics	2,000 mg/kg
Heavy Oils	2,000 mg/kg

Additional MTCA Method B criteria are available from the Ecology website in the Cleanup Levels and Risk Calculation database (CLARC, maintained on the Ecology website<sup>3</sup>) and additional calculations following procedures in WAC 173-340-747. The basis for these criteria listed above vary for different compounds (see MTCA Table 740-1), but include dermal contact to residential soils, area background levels (for arsenic), and potential leaching impacts to groundwater (for cadmium).

A short list of relevant MTCA Method A criteria for groundwater and unrestricted land use are presented below (from WAC 173-340-720 , and all values below assume the groundwater is used for potable water supply):

Arsenic	5 ug/liter
Cadmium	5 ug/liter
Chromium (Total)	50 ug/liter
Lead	15 ug/liter
Total Petroleum Hydrocarbons	
Diesel Range Organics	500 ug/liter
Heavy Oils	500 ug/liter

Additional MTCA Method B criteria for groundwater are available from the Ecology website in the CLARC database and also include protection of adjacent surface water based on ambient water quality criteria.

#### 4.5.3 Comparison of Site Data to Relevant Criteria

Using the MTCA criteria as the basis for comparison, the Phase II sampling indicated the following for each of the RECs sampled:

Former Toilet:	No evidence of release from metals analysis; low levels of hydrocarbons detected in soil that are below MTCA criteria.
Oil House 1:	No evidence of release based on hydrocarbons analysis.
Oil House 2:	No evidence of release based on hydrocarbons analysis.
Fuel Vault:	No evidence of release based on hydrocarbons analysis.
Former Machine Shop:	No evidence of release based on metals analysis, hydrocarbons analysis and VOC analysis.
Former Repair Shed:	No evidence of release based on metals analysis, hydrocarbons analysis and VOC analysis.
Former transformer 1:	No evidence of release based on PCBs analysis.
Former transformer 2:	No evidence of release based on PCBs analysis.
Former Powerhouse:	Evidence of release of metals and hydrocarbons based on sample collected from visible ash layer (within soil) that was tested. A deeper soil sample (2 feet deep and below the ash layer) was not impacted. A sample of ash from the ovens showed some elevated metals content but was different in metals detected from the soil sample. Two test pits in front the ovens identified a visible ash layer. Two shallow test pits east of the ovens (towards the former fuel vault) did not identify an ash layer. The Probe boring

<sup>3</sup> URL: <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>

(GP-5) located to the South of the powerhouse building identified an ash layer. The groundwater sample collected nearby was analyzed for total metals and dissolved metals. The total metals analysis had elevated metals, but the water was turbid. The dissolved metals sample (field filtered) was below all MTCA criteria. Groundwater at this location also sampled for hydrocarbons (HCID), VOCs and nitrite/nitrate and no impacts were detected.

Former AST :  
(located offsite NE of Site)

Previous investigations provide evidence of release at this off-site location and results are summarized in prior reports (E3RA 2006 and Robinson Noble 2010). The focus in this investigation was groundwater sampling near the property boundary of the purchase parcel (4 samples approximately 90 to 120 feet from the former tank location). The boundary of the purchase parcel is approximately 130+ feet from the former AST location. The results from this sampling indicated 3 of the 4 groundwater samples at non-detect levels for hydrocarbons and 1 sample (GP-2, the closest location at 90 feet from the former AST) had detections of diesel range organics and heavy oil range organics at concentrations at or close to the MTCA criteria (500 ug/L). The next further down- gradient location (GP-1 at 115 feet from the former AST) indicated non-detect levels for all hydrocarbons. The AST release may be 50 or more years old and the plume appears static (the natural degradation rate is faster than groundwater migration). These sampling results are consistent with the data reported in Robinson and Noble (2010). Those results from soil sampling of test pits (in the expected down gradient direction) found hydrocarbons in one sample from a test pit at 50 feet down gradient and non detect levels at 75 feet down gradient). Based on these conditions (and non-detect values closer to the purchase property boundary), it does not appear that the known AST release will have an adverse impact on the intended development of the Site (purchase parcel).

Former Drying Kiln

ACM was identified in two walls/rubble piles of the building. Based on this inspection (and prior sampling indicating that ACM is present) the volume of rubble that must be managed as ACM is estimated at approximately 150 cubic yards (this represents less than 25% of the total rubble in the former drying kiln area).

Other RECs Inspected (but not sampled):

Former planning mill:

Area inspected and no areas of concern identified, two test pits dug, no evidence of release.

Former sawmill mill:

Area inspected and no areas of concern identified.

Former pump house:

Area inspected and no areas of concern identified.

## 4.6 Recommendations

The initial list of RECs investigated in this Phase II ESA was based on the results of the Phase I ESA (GeoEngineers 2003). The REC list and appropriate analytes to include were expanded based on the site reconnaissance and interviews.

This Phase II ESA identified soil contamination above MTCA criteria in one REC (near the former Powerhouse). The soil contamination in the area of the former Powerhouse appears to be associated with a visible ash layer in the soil. A slightly deeper soil sample collected beneath the ash layer was clean, as were groundwater samples collected in the area. The remaining ash in Powerhouse ovens was sampled and it also contains elevated levels of metals.

In addition, a portion of the rubble pile in the area of the former drying kiln has been identified as ACM.

For these two RECs, the presence of regulated materials represents an environmental liability and consideration should be given to the management and/or removal of these materials. Recommendations regarding the scope of work and cost estimate to remove these materials in accordance with applicable laws and regulations is in preparation and will be provided under a separate cover.

As noted previously, a hydrocarbon release at an off-Site location northeast of the purchase parcel has been documented and the sampling in this investigation focused on groundwater sampling near the property boundary of the purchase parcel. Based on the data collected (including non-detect values in areas close to the purchase property boundary), it does not appear that the known AST release will have an adverse impact on the intended development of the Site (purchase parcel).

Regarding the other site RECs identified in the Phase I ESA: Based on the judgment of the environmental professionals completing this work and evaluating the data, the data presented herein provide sufficient information to support an opinion that there is no reasonable basis for suspecting the disposal or release of hazardous substances or petroleum products at the other RECs investigated.

The results of this Phase II ESA do not eliminate all uncertainty because all environmental samples, either surface or subsurface, may or may not be representative of a larger population. Professional judgment and data interpretation are inherent in the evaluation process and uncertainty is inevitable.

## 5.0 LIMITATIONS

This Phase II ESA has been prepared for use by CenterPoint Church. CALIBRE has performed this Phase II ESA of the Site (a specific portion of the former Eatonville Lumber Company facility) in general accordance with the scope and limitations of our proposal dated December, 13, 2010 and ASTM E 1093 (*Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process*). Within the limitations of scope, schedule and budget, our services have been executed in accordance with the generally accepted environmental science practices for Phase II ESAs in this area at the time this report was prepared. Assessment of the business risks regarding the information described in this report is beyond the scope of work authorized and completed. Those business risks, if any, are dependent upon other site- and transaction-specific variables which have not been disclosed to CALIBRE. No warranty or other conditions, express or implied, should be understood.

## 6.0 REFERENCES

E3RA 2006. Limited Phase II Environmental Site Assessment, Former Eatonville Lumber Company Eatonville, WA, prepared for LeRoy Surveyor's & Engineers, Inc., Puyallup, WA Prepared by E3RA, Inc. Everett, WA April 7, 2006

GeoEngineers, 2003. Phase I Environmental Site Assessment, Former Eatonville Lumber Company, Eatonville, Washington, dated September 12, 2003.

Robinson Noble, 2010. Madison Avenue Property Storage Tank Contamination Investigation, Prepared for CenterPoint Church by Robinson Noble, Inc, November 23, 2010.

Walters, K.L., and Kimmel, G.E., 1968, Ground-water occurrence and stratigraphy of unconsolidated deposits, central Pierce County, Washington: Washington State Department of Water Resources Water-Supply Bulletin no. 22.

## TABLES

Table 1. Recognized environmental conditions present on the Site that included further investigation.

RECs present on Site	Notes:
1. Former Toilet	Location: SE of SE quadrant* Sampling: Inspect the soil to find any evidence of a release, dig test pits, and collect a soil sample for petroleum hydrocarbons analysis (HCID Method) and metals (Method 6010) analyses.
2. Former Oil House 1	Location: SE corner of SW quadrant Sampling: Inspect the soil, to find any evidence of a release, dig test pit, and collect a soil sample for petroleum hydrocarbons analysis (HCID Method).
3. Former Oil House 2	Location: SE of SE quadrant, N of Former Toilet Sampling: Inspect the soil to find any evidence of a release, dig test pit, and collect a soil sample for petroleum hydrocarbons analysis (HCID Method).
4. Former Fuel Vault	Location: N of Former Oil House 1 Sampling: Inspect the area/soil/concrete for evidence of a release, dig test pit, collect a soil sample for petroleum hydrocarbons analysis (HCID Method).
5. Former Machine Shop	Location: Southern part of NE quadrant Sampling: Inspect the soil to find any evidence of a release, dig test pits, collect soil samples for petroleum hydrocarbons (HCID Method), volatile organic compounds (Method 8260C), and metals (Method 6010) analyses.
6. Former Repair Shed	Location: Center of NE quadrant, above Former Machine Shop Sampling: Inspect the soil to find any evidence of a release, dig test pits, collect soil samples for petroleum hydrocarbons (HCID Method), volatile organic compounds (Method 8260 C), and metals (Method 6010) analyses
7. Transformer	Location: SW corner of SE quadrant Sampling: Soil sample for PCBs.
8. Former Powerhouse	Location: South center of SW quadrant Sampling: Inspect the soil, for any evidence of a release, dig test pits and collect a soil sample for petroleum hydrocarbons analysis (HCID Method) and metals. Metals and hydrocarbons contamination was detected and a groundwater sample was collected.
9. Former Pump House	Location: Potentially on or near the proper boundary, S of Former Oil House 1 Sampling: No sampling, inspection only.
10. Former Dry Kilns	Location: southern part of SE quadrant Sampling: Inspection for asbestos containing materials.
11. Former Sawmill	Location: NW of SW quadrant Sampling: No sampling, inspection only.
12. Former Planning Mill	Location: SE of SE quadrant Sampling: No sampling, inspection only.
13. Former Above Ground Storage Tank (AST)**	Location: NE Off-Site, 196 feet N/NW from the eastern most corner of the Site. Sampling: Groundwater sampling was implemented since release from the off-site AST may have impacted groundwater on the Site. Four groundwater samples were collected and analyzed for petroleum hydrocarbons (HCID Method). The sample locations were collected near the Parcel boundaries
14. Transformer	Location: SW corner of SE quadrant Sampling: Soil sample for PCBs.

\*Note: Site is divided into 4 quadrants: NE, NW, SE, and SW. North-south dividing line is parallel to the Site property lines and runs through the middle of the southern property line of the Site. West-East line runs through the middle of the eastern property line of the Site.

\*\* identified as Underground Storage Tank (UST) (GeoEngineers 2003) and later described as AST by Robinson Noble (2010)

Table 2. Summary of soil samples collected at Former Eatonville Mill Site

REC ID	Sample ID	Date	Analyses
Former Toilet	T-1-2	1/6/2011	HCID, metals
Former Oil House 1	OH1-1-0.3	1/6/2011	HCID
Former Oil House 2	OH2-1-2	1/6/2011	HCID
Former Fuel Vault	FV-C-1-2	1/6/2011	HCID
Former Machine Shop	MS-C-1-2	1/6/2011	HCID, metals, VOCs
Former Repair Shed	RS-C-1-2	1/6/2011	HCID, metals, VOCs
Transformer	Trans1-1-S	1/6/2011	PCBs
Former Powerhouse	PH-W-1-0-S ( at 1 ft)	1/6/2011	HCID, metals
Former Powerhouse	PH-W-2-2 (at 2 ft)	1/6/2011	HCID, metals
Added Transformer	Trans2-1-S	1/6/2011	PCBs
Former Powerhouse	PH-Ash-1	1/24/2011	metals
Former Powerhouse	PH-Ash-1	1/24/2011	TCLP extract metals

Table 3. Analytical Results for Hydrocarbons (NWTPH-HCID) in Soils at Former Eatonville Mill Site

Parameter tested	MRL (mg/kg)	Former Fuel Vault	Former Toilet	Former Machine Shop	Former Power House	Former Power House	Former Oil House 1	Former Repair Shed	Former Oil House 2
		Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID
Gasoline	20	FV-C-1-2	T-1-2	MS-C-1-2	PH-W-1-0-S	PH-W-2-2	OH1-1-0.3	RS-C-1-2	OH2-1-2
Mineral Spirits	30	ND	ND	ND	ND	ND	ND	ND	ND
Kerosene	50	ND	ND	ND	ND	ND	ND	ND	ND
Diesel (Fuel Oil)	50	ND	ND	ND	ND	ND	ND	ND	ND
Mineral Oil	100	ND	ND	ND	ND	ND	ND	ND	ND
Heavy Oil	100	ND	D(1)	ND	D(2)	ND	ND	ND	ND

D(1) < 100 mg/kg

D(2) ~11,000 mg/kg

Table 4. Analytical Results for PCBs (EPA 8082) in Soils at Former Eatonville Mill Site

Parameter	MRL (mg/kg)	Transformer	2 <sup>nd</sup> Transformer
		Sample ID	Sample ID
Aroclor 1016	0.1	TRANS-1-1-S	TRANS-2-1-S
Aroclor 1221	0.1	ND	ND
Aroclor 1232	0.1	ND	ND
Aroclor 1242	0.1	ND	ND
Aroclor 1248	0.1	ND	ND
Aroclor 1254	0.1	ND	ND
Aroclor 1260	0.1	ND	ND

Table 5. Analytical Results in for Metals (6020) in Soils at Former Eatonville Mill Site

Parameter	MRL	Sample ID								
		Former Toilet	Former Machine Shop	Former Repair Shed	Former Power House	Former Power House	Former Power House	PH-W-1-0-S	PH-W-2-2	PH-Ash-1
Arsenic (As)	0.10	T-1-2 9.4	MS-C-1-2 18	RS-C-1-2 8.4	PH-W-1-0-S 12	PH-W-2-2 11	PH-Ash-1 24	PH-Ash-1 2580	PH-Ash-1 9.8	PH-Ash-1 1210
Barium (Ba)	0.50	154	90	121	419	167	2580	2580	9.8	1210
Cadmium (Cd)	0.20	0.56	ND	ND	13	0.29	55	55	267	-
Chromium (Cr)	0.10	23	17	17	39	22	166	166	ND	ND
Copper (Cu)	0.20	-	-	-	989	-	267	267	ND	ND
Lead (Pb)	0.20	62	3.7	15	2,550	9.2	166	166	ND	ND
Mercury (Hg)	0.20	1.4	ND	ND	0.62	ND	ND	ND	ND	ND
Selenium (Se)	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver (Ag)	0.10	ND	ND	ND	2.4	ND	0.50	0.50	ND	ND

\*Metals by EPA Method 6020 with EPA Method 1311 Extraction (TCLP)

Table 6. Analytical Results for Volatile Organic Compounds (VOCs by 8260C) in Soils at Former Eatonville Mill Site

Parameter	Former Machine Shop/ Repair Shed	
	MRL	Sample ID
All VOCs from 8260C scan	(mg/kg)	RS-C-1-2
	Varies	ND

Table 7. Summary of Groundwater Samples collected at Former Eatonville Mill Site

Location	Sample ID	Date	Analyses
Near Former AST (~120 ft SW)	GP-1-17-1-19-11	1/19/2011	HCID
Near Former AST (~90 ft SW)	GP-2-17-1-19-11	1/19/2011	HCID
Near Former AST (~120 ft W)	GP-3-13-1-19-11	1/19/2011	HCID
Near Former AST (~120 ft SE)	GP-4-19-1-19-11	1/19/2011	HCID
At Powerhouse	GP-5-17-1-19-11	1/19/2011	HCID, VOCs, Nitrate /Nitrite, metals as total and dissolved

Table 8. Analytical Results for Hydrocarbons (NWTPH-HCID) in Groundwater at Former Eatonville Mill Site

Parameter	ug/L					Near Former AST GP-4-19-1-19-11	At Powerhouse GP-5-17-1-19-11
	MRL	Near Former AST GP-1-17-1-19-11	Near Former AST GP-2-17-1-19-11	Near Former AST GP-3-13-1-19-11	Near Former AST GP-4-19-1-19-11		
Gasoline	400	ND	ND	ND	ND	ND	ND
Mineral Spirits	500	ND	ND	ND	ND	ND	ND
Kerosene	500	ND	ND	ND	ND	ND	ND
Diesel Range Organics (DRO)	500	ND	D(3)	ND	ND	ND	ND
Mineral Oil	500	ND	ND	ND	ND	ND	ND
Heavy Oil	500	ND	D(3)	ND	ND	ND	ND

D(3) reported as 400-550 ug/L

Table 9. Analytical Results for Metals in Groundwater at Former Eatonville Mill Site

Parameter	GP-5 at Former Powerhouse	
	MRL	sample ID GP-5-17-1-19-11
	ug/L	Dissolved metals
Antimony (Sb)	0.2	1.16 ND
Arsenic (As)	1.0	68.1 1.80
Beryllium (Be)	0.2	2.64 8.90
Cadmium (Cd)	0.2	0.55 ND
Chromium (Cr)	0.2	112 5.20
Copper (Cu)	0.2	194 0.95
Lead (Pb)	1.0	18.5 ND
Mercury (Hg)	0.3	0.64 ND
Nickel (Ni)	0.5	72 0.80
Selenium (Se)	1.0	ND ND
Silver (Ag)	0.2	ND ND
Thallium (Tl)	0.2	0.46 ND
Zinc (Zn)	1.5	157 2.40

\*\* Note that the total metals analysis is not considered representative of site groundwater due to the sample turbidity

Table 10. Analytical Results for Nitrate and Nitrite in Groundwater at Former Eatonville Mill Site (GP-5 at Former Powerhouse)

Parameter	MRL	GP-5-17-1-19-11
	mg/L	
Nitrate (NO <sub>3</sub> )	0.1	1.08
Nitrite (NO <sub>2</sub> )	0.1	ND

Table 11. Analytical Results for Volatile Organic Compounds (VOCs) in Groundwater at Former Eatonville Mill Site (GP-5 at Former Powerhouse)

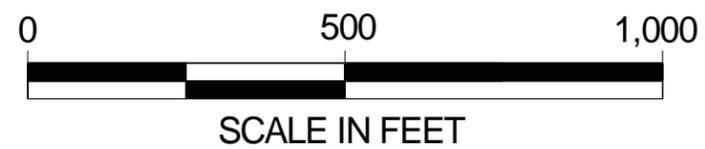
Parameter	MRL		Sample ID
	(ug/L)		
All VOCs from 8260C scan	varies		GP-5-17-1-19-11
			ND

## FIGURES



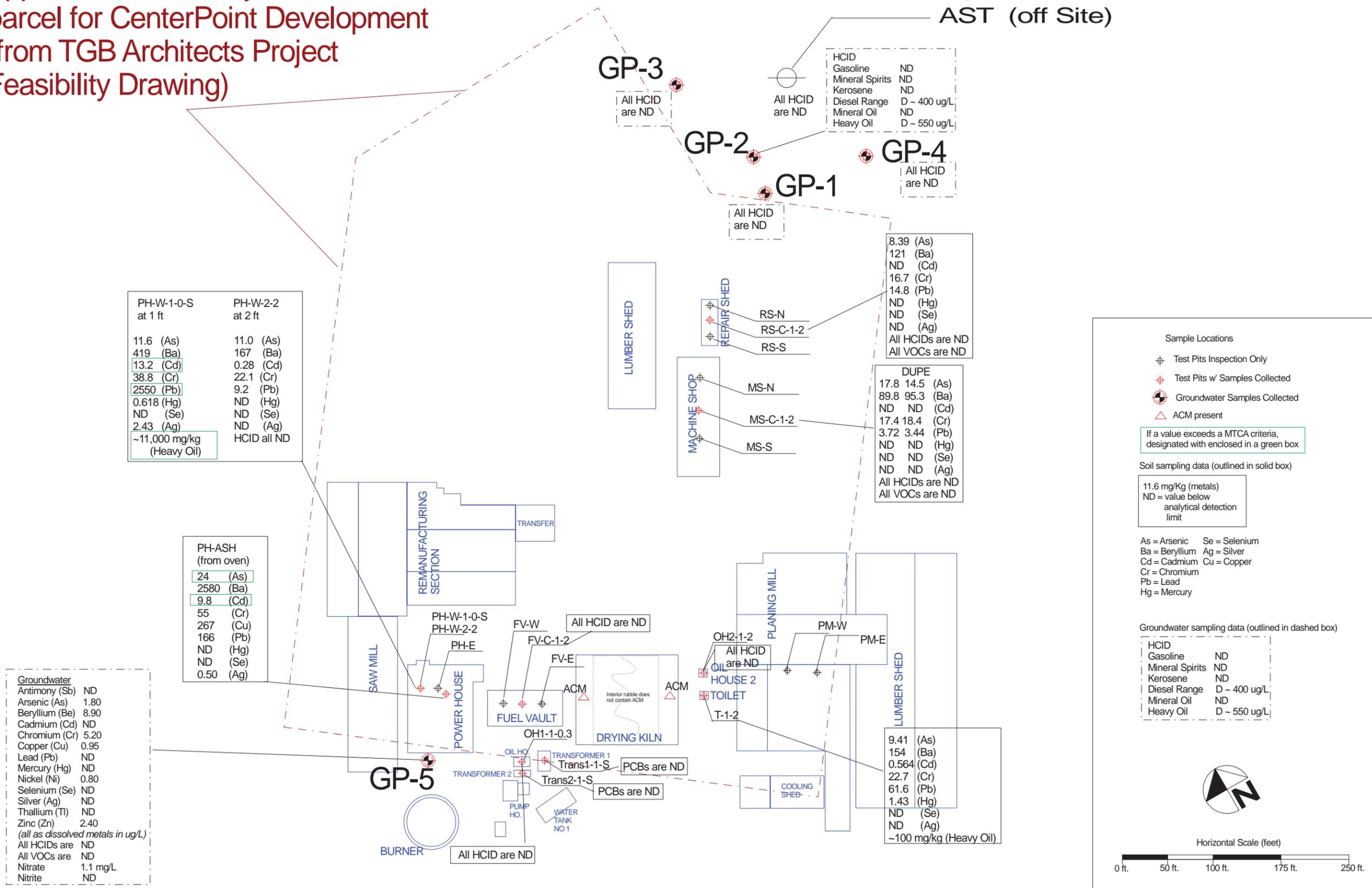
Legend

- - - - - Larger Parcel
- \_ \_ \_ \_ \_ Proposed Redevelopment Area



Approximate boundary of 10-acre parcel for CenterPoint Development (from TGB Architects Project Feasibility Drawing)

FORMER AST (off Site)



## Appendix A Laboratory Data Sheets



2930 Westlake Ave N Suite 100  
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info@fremontanalytical.com

**Calibre**

**Attn: Tom McKeon**  
17811 Wayne Ave. N.  
Shoreline, WA 98133

**RE: Eatonville**  
**Fremont Project No: CHM110107-5**

January 13<sup>th</sup>, 2011

**Tom:**

Enclosed are the analytical results for the **Eatonville** soil samples submitted to Fremont Analytical on January 7<sup>th</sup>, 2011.

**Sample Receipt:**

The samples were received in good condition – in the proper containers, properly sealed, labeled and within holding time. The soil samples were contained in 4 – 4oz sample containers, 8 – 4oz sample containers and 48 – 40mL VOAs preserved with Sodium Bisulfate. The samples were received in a cooler with wet ice, with a cooler temperature of 5.8°C, which is within the laboratory recommended cooler temperature range (<4°C - 10°C). The samples were stored in a refrigeration unit at the USEPA-recommended temperature of 4°C ± 2°C. There were no sample receipt issues to report.

**Sample Analysis:**

Examination of these samples was conducted for the presence of the following:

- ***Volatile Organic Compounds by EPA Method 8260***
- ***Hydrocarbon Identification by NWTPH-HCID***
- ***PCB's (Polychlorinated Biphenyls) in Soil by EPA 8082***
- ***Total Metals (RCRA-8) by EPA Method 6020***
- ***Bulk Asbestos Fibers Analysis \*\****

These applications were performed under Washington State Department of Ecology accreditation parameters. All appropriate Quality Assurance / Quality Control method parameters have been applied. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical!

Sincerely,

Michael Dee  
Sr. Chemist / Principal  
mikedee@fremontanalytical.com

\*\* Analysis performed by NVL



## Analysis of Volatile Organic Compounds in Soil by EPA Method 8260

**Project: Eatonville**  
**Client: Calibre**  
**Client Project #: N/A**  
**Lab Project #: CHM110107-5**

EPA 8260B (mg/kg)	MRL	Method Blank	LCS	MS-C-1-2	RS-C-1-2	Duplicate	MS
						MS-C-1-2	RS-C-1-2
Date Preserved				1/6/11	1/6/11	1/6/11	1/6/11
Date Analyzed		1/8/11	1/8/11	1/8/11	1/8/11	1/8/11	1/8/11
Matrix				Soil	Soil	Soil	Soil
Dichlorodifluoromethane (CFC-12)	0.06	nd		nd	nd	nd	
Chloromethane	0.06	nd		nd	nd	nd	
Vinyl chloride *	0.002	nd		nd	nd	nd	
Bromomethane	0.09	nd		nd	nd	nd	
Chloroethane	0.06	nd		nd	nd	nd	
Trichlorofluoromethane (CFC-11)	0.05	nd		nd	nd	nd	
1,1-Dichloroethene	0.05	nd	87.4%	nd	nd	nd	83.2%
Methylene chloride	0.03	nd		nd	nd	nd	
trans-1,2-Dichloroethene	0.02	nd		nd	nd	nd	
1,1-Dichloroethane	0.02	nd		nd	nd	nd	
2,2-Dichloropropane	0.05	nd		nd	nd	nd	
cis-1,2-Dichloroethene	0.02	nd		nd	nd	nd	
Chloroform	0.02	nd		nd	nd	nd	
1,1-Dichloropropene	0.02	nd		nd	nd	nd	
Carbon tetrachloride	0.02	nd		nd	nd	nd	
1,1,1-Trichloroethane (TCA)	0.02	nd		nd	nd	nd	
Benzene	0.02	nd	96.5%	nd	nd	nd	78.0%
1,2-Dichloroethane (EDC)	0.03	nd		nd	nd	nd	
Trichloroethene (TCE)	0.03	nd	93.3%	nd	nd	nd	73.8%
1,2-Dichloropropane	0.02	nd		nd	nd	nd	

"nd" Indicates not detected at listed reporting limits  
 "int" Indicates that interference prevents determination  
 \* Instrument Detection Limit  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%  
Acceptable Recovery Limits:  
 Surrogate = 65% to 135%  
 LCS, MS = 65% to 135%  
 Surrogate Concentration = 0.5 mg/kg  
 Spike Concentration = 0.5 mg/kg



## Analysis of Volatile Organic Compounds in Soil by EPA Method 8260

**Project:** Eatonville  
**Client:** Calibre  
**Client Project #:** N/A  
**Lab Project #:** CHM110107-5

EPA 8260B (mg/kg)	MRL	Method Blank	LCS	MS-C-1-2	RS-C-1-2	Duplicate	MS
						MS-C-1-2	RS-C-1-2
Date Preserved				1/6/11	1/6/11	1/6/11	1/6/11
Date Analyzed		1/8/11	1/8/11	1/8/11	1/8/11	1/8/11	1/8/11
Matrix				Soil	Soil	Soil	Soil
Dibromomethane	0.04	nd		nd	nd	nd	
Bromodichloromethane	0.02	nd		nd	nd	nd	
cis-1,3-Dichloropropene	0.02	nd		nd	nd	nd	
Toluene	0.02	nd	89.0%	nd	nd	nd	74.4%
Trans-1,3-Dichloropropene	0.03	nd		nd	nd	nd	
1,1,2-Trichloroethane	0.03	nd		nd	nd	nd	
Tetrachloroethene (PCE)	0.02	nd		nd	nd	nd	
1,3-Dichloropropane	0.05	nd		nd	nd	nd	
Dibromochloromethane	0.03	nd		nd	nd	nd	
1,2-Dibromoethane (EDB) *	0.005	nd		nd	nd	nd	
Chlorobenzene	0.02	nd	93.7%	nd	nd	nd	71.4%
1,1,1,2-Tetrachloroethane	0.03	nd		nd	nd	nd	
Ethylbenzene	0.03	nd		nd	nd	nd	
Total Xylenes	0.03	nd		nd	nd	nd	
Styrenes	0.02	nd		nd	nd	nd	
Bromoform	0.02	nd		nd	nd	nd	
Isopropylbenzene	0.08	nd		nd	nd	nd	
1,2,3-Trichloropropane	0.02	nd		nd	nd	nd	
Bromobenzene	0.03	nd		nd	nd	nd	
1,1,2,2-Tetrachloroethane	0.02	nd		nd	nd	nd	

"nd" Indicates not detected at listed reporting limits  
 "int" Indicates that interference prevents determination  
 \* Instrument Detection Limit  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%  
Acceptable Recovery Limits:  
 Surrogate = 65% to 135%  
 LCS, MS = 65% to 135%  
 Surrogate Concentration = 0.5 mg/kg  
 Spike Concentration = 0.5 mg/kg



## Analysis of Volatile Organic Compounds in Soil by EPA Method 8260

**Project:** Eatonville  
**Client:** Calibre  
**Client Project #:** N/A  
**Lab Project #:** CHM110107-5

EPA 8260B (mg/kg)	MRL	Method Blank	LCS	MS-C-1-2	RS-C-1-2	Duplicate	MS
						MS-C-1-2	RS-C-1-2
Date Preserved				1/6/11	1/6/11	1/6/11	1/6/11
Date Analyzed		1/8/11	1/8/11	1/8/11	1/8/11	1/8/11	1/8/11
Matrix				Soil	Soil	Soil	Soil
n-Propylbenzene	0.02	nd		nd	nd	nd	
2-Chlorotoluene	0.02	nd		nd	nd	nd	
4-Chlorotoluene	0.02	nd		nd	nd	nd	
1,3,5-Trimethylbenzene	0.02	nd		nd	nd	nd	
tert-Butylbenzene	0.02	nd		nd	nd	nd	
1,2,4-Trimethylbenzene	0.02	nd		nd	nd	nd	
sec-Butylbenzene	0.02	nd		nd	nd	nd	
1,3-Dichlorobenzene	0.02	nd		nd	nd	nd	
4-Isopropyltoluene	0.02	nd		nd	nd	nd	
1,4-Dichlorobenzene	0.02	nd		nd	nd	nd	
1,2-Dichlorobenzene	0.02	nd		nd	nd	nd	
n-Butylbenzene	0.02	nd		nd	nd	nd	
1,2-Dibromo-3-Chloropropane	0.03	nd		nd	nd	nd	
1,2,4-Trichlorobenzene	0.05	nd		nd	nd	nd	
Hexachloro-1,3-butadiene	0.10	nd		nd	nd	nd	
Naphthalene	0.03	nd		nd	nd	nd	
1,2,3-Trichlorobenzene	1.0	nd		nd	nd	nd	

### Surrogate Recovery

Dibromofluoromethane	107%	103%	109%	111%	108%	107%
Toluene-d8	99%	99%	99%	95%	97%	98%
1-Bromo-4-fluorobenzene	96%	90%	95%	83%	99%	84%

"nd" Indicates not detected at listed reporting limits

"int" Indicates that interference prevents determination

\* Instrument Detection Limit

"J" Indicates estimated value

"MRL" Indicates Method Reporting Limit

"LCS" Indicates Laboratory Control Sample

"MS" Indicates Matrix Spike

"RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

#### Acceptable Recovery Limits:

Surrogate = 65% to 135%

LCS, MS = 65% to 135%

Surrogate Concentration = 0.5 mg/kg

Spike Concentration = 0.5 mg/kg



## Hydrocarbon Identification in Soil by NWTPH-HCID

**Project: Eatonville**  
**Client: Calibre**  
**Client Project #: N/A**  
**Lab Project #: CHM110107-5**

NWTPH-HCID (mg/kg)	MRL	Method Blank	LCS	FV-C-1-2	T-1-2	Duplicate	
						MS-C-1-2	MS-C-1-2
Date Extracted		1/7/11	1/7/11	1/7/11	1/7/11	1/7/11	1/7/11
Date Analyzed		1/8/11	1/8/11	1/8/11	1/8/11	1/8/11	1/8/11
Matrix				Soil	Soil	Soil	Soil
Gasoline	20	nd		nd	nd	nd	nd
Mineral Spirits	30	nd		nd	nd	nd	nd
Kerosene	50	nd		nd	nd	nd	nd
Diesel (Fuel Oil)	50	nd	88.9%	nd	nd	nd	nd
Mineral Oil	100	nd		nd	nd	nd	nd
Heavy Oil	100	nd		nd	<b>D</b>	nd	nd

### Surrogate Recovery

(Surr 1 ) 2-Fluorobiphenyl	96%	110%	98%	100%	100%	99%
(Surr 2) o-Terphenyl	99%	116%	100%	102%	101%	101%

"nd" Indicates not detected at listed reporting limits

"int" Indicates that interference prevents determination

"D" Indicates detection at or above the listed reporting limit

"C" Indicates coelution prevents determination

"MRL" Indicates Method Reporting Limit

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

Surrogate = 65% to 135%

Surrogate Concentration = 5.0 mg/kg



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## Hydrocarbon Identification in Soil by NWTPH-HCID

**Project:** Eatonville  
**Client:** Calibre  
**Client Project #:** N/A  
**Lab Project #:** CHM110107-5

<b>NWTPH-HCID (mg/kg)</b>	<b>MRL</b>	<b>PH-W-1-0-5</b>	<b>OH1-1-0.3</b>	<b>RS-C-1-2</b>	<b>OH2-1-2</b>
Date Extracted		1/7/11	1/7/11	1/7/11	1/7/11
Date Analyzed		1/8/11	1/8/11	1/8/11	1/8/11
Matrix		Soil	Soil	Soil	Soil
Gasoline	20	nd	nd	nd	nd
Mineral Spirits	30	nd	nd	nd	nd
Kerosene	50	nd	nd	nd	nd
Diesel (Fuel Oil)	50	nd	nd	nd	nd
Mineral Oil	100	nd	nd	nd	nd
Heavy Oil	100	<b>D</b>	nd	nd	nd

### Surrogate Recovery

(Surr 1 ) 2-Fluorobiphenyl	106%	113%	101%	114%
(Surr 2) o-Terphenyl	119%	117%	104%	113%

"nd" Indicates not detected at listed reporting limit  
 "int" Indicates that interference prevents determination  
 "D" Indicates detection at or above the listed reporting limit  
 "C" Indicates coelution prevents determination  
 "MRL" Indicates Method Reporting Limit

Acceptable RPD is determined to be less than 30%

#### Acceptable Recovery Limits:

Surrogate = 65% to 135%  
 Surrogate Concentration = 5.0 mg/kg



## Analysis of PCB's (Polychlorinated Biphenyls) in Soil by EPA 8082

Project: Eatonville

Client: Calibre

Client Project #: N/A

Lab Project #: CHM110107-5

EPA 8082 (mg/kg)	MRL	Method Blank	LCS	TRANS-1-1-5	Duplicate	
					TRANS-2-1-5	TRANS-1-1-5
Date Extracted		1/7/11	1/7/11	1/7/11	1/7/11	1/7/11
Date Analyzed		1/8/11	1/8/11	1/8/11	1/8/11	1/8/11
Matrix				Soil	Soil	Soil
Aroclor 1016	0.1	nd		nd	nd	nd
Aroclor 1221	0.1	nd		nd	nd	nd
Aroclor 1232	0.1	nd		nd	nd	nd
Aroclor 1242	0.1	nd		nd	nd	nd
Aroclor 1248	0.1	nd		nd	nd	nd
Aroclor 1254	0.1	nd	106%	nd	nd	nd
Aroclor 1260	0.1	nd		nd	nd	nd

### Surrogate Recovery

Surr 1 (TCMX)	101%	101%	101%	105%	102%
Surr 2 (DCBP)	107%	107%	97%	106%	102%

"nd" Indicates no detection at the listed reporting limits

"int" Indicates that interference prevents determination

"C" Indicates coelution with Sample Peaks

"J" Indicates estimated value

"MRL" Indicates Method Reporting Limit

"LCS" Indicates Laboratory Control Sample

"MS" Indicates Matrix Spike

"MSD" Indicates Matrix Spike Duplicate

"RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

#### Acceptable Recovery Limits:

Surrogates = 65% to 135%

LCS, LCSD, MS, MSD = 65% to 135%

Surrogates Concentration = 0.025 mg/kg

Spike Concentration = 1.0 mg/kg



## Analysis of PCB's (Polychlorinated Biphenyls) in Soil by EPA 8082

**Project:** Eatonville  
**Client:** Calibre  
**Client Project #:** N/A  
**Lab Project #:** CHM110107-5

EPA 8082 (mg/kg)	MRL	MS	MSD	RPD %
		TRANS-1-1-5	TRANS-1-1-5	
Date Extracted		1/7/11	1/7/11	
Date Analyzed		1/8/11	1/8/11	
Matrix		Soil	Soil	
Aroclor 1016	0.1			
Aroclor 1221	0.1			
Aroclor 1232	0.1			
Aroclor 1242	0.1			
Aroclor 1248	0.1			
Aroclor 1254	0.1	115%	110%	4%
Aroclor 1260	0.1			

### Surrogate Recovery

Surr 1 (TCMX)	105%	103%
Surr 2 (DCBP)	104%	101%

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "C" Indicates coelution with Sample Peaks  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

#### Acceptable Recovery Limits:

Surrogates = 65% to 135%  
 LCS, LCSD, MS, MSD = 65% to 135%  
 Surrogates Concentration = 0.025 mg/kg  
 Spike Concentration = 1.0 mg/kg



## Analysis of Total Metals in Soil by EPA Method 6020

**Project: Eatonville**  
**Client: Calibre**  
**Client Project #: N/A**  
**Lab Project #: CHM110107-5**

EPA 6020 (mg/kg)	MRL	Method Blank	LCS	T-1-2	Duplicate		RPD %
					MS-C-1-2	MS-C-1-2	
Date Extracted		1/7/11	1/7/11	1/7/11	1/7/11	1/7/11	
Date Analyzed		1/7/11	1/7/11	1/7/11	1/7/11	1/7/11	
Matrix				Soil	Soil	Soil	
Arsenic (As)	0.10	nd	95.7%	<b>9.41</b>	<b>17.8</b>	<b>14.5</b>	21%
Barium (Ba)	0.50	nd	83.1%	<b>154</b>	<b>89.8</b>	<b>95.3</b>	6%
Cadmium (Cd)	0.20	nd	73.3%	<b>0.564</b>	nd	nd	
Chromium (Cr)	0.10	nd	81.5%	<b>22.7</b>	<b>17.4</b>	<b>18.4</b>	6%
Lead (Pb)	0.20	nd	97.0%	<b>61.6</b>	<b>3.72</b>	<b>3.44</b>	8%
Mercury (Hg)	0.20	nd	91.6%	<b>1.43</b>	nd	nd	
Selenium (Se)	0.50	nd	90.0%	nd	nd	nd	
Silver (Ag)	0.10	nd	81.9%	nd	nd	nd	

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

As, Cr, Ba = 50 mg/kg  
 Pb = 25 mg/kg  
 Hg, Se = 5.0 mg/kg  
 Cd, Ag = 2.5 mg/kg



## Analysis of Total Metals in Soil by EPA Method 6020

**Project: Eatonville**  
**Client: Calibre**  
**Client Project #: N/A**  
**Lab Project #: CHM110107-5**

EPA 6020 (mg/kg)	MRL	PH-W-1-0-5	RS-C-1-2	MS	MSD	RPD %
				110103-2-3	110103-2-3	
Date Extracted		1/7/11	1/7/11	1/7/11	1/7/11	
Date Analyzed		1/7/11	1/7/11	1/7/11	1/7/11	
Matrix		Soil	Soil	Soil	Soil	
Arsenic (As)	0.10	<b>11.6</b>	<b>8.39</b>	102%	103%	0.6%
Barium (Ba)	0.50	<b>419</b>	<b>121</b>	93.9%	100%	7%
Cadmium (Cd)	0.20	<b>13.2</b>	nd	88.8%	89.0%	0.2%
Chromium (Cr)	0.10	<b>38.8</b>	<b>16.7</b>	86.9%	86.3%	0.7%
Lead (Pb)	0.20	<b>2550</b>	<b>14.8</b>	101%	111%	10%
Mercury (Hg)	0.20	<b>0.618</b>	nd	92.8%	92.1%	0.8%
Selenium (Se)	0.50	nd	nd	93.8%	89.6%	5%
Silver (Ag)	0.10	<b>2.43</b>	nd	89.1%	89.1%	0.1%

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

As, Cr, Ba = 50 mg/kg  
 Pb = 25 mg/kg  
 Hg, Se = 5.0 mg/kg  
 Cd, Ag = 2.5 mg/kg

# Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Fremont Analytical

Address: 2930 Westlake Ave N, Suite 100  
Seattle, WA 98109

**Attention: Mr. Mike Ridgeway**

Project Location: N/A

**Batch #: 3100334.00**

Client Project #: CHM110107-5

Date Received: 01/07/2011

Samples Received: 2

Samples Analyzed: 2

Method: EPA/600R-93/116

**Lab ID: 31001399      Client Sample #: DK-W-1-S**

Location: N/A

**Layer 1 of 1      Description:** Black asphaltic material

Non-Fibrous Materials:

Other Fibrous Materials: %

**Asbestos Type: %**

Asphalt/Binder

None Detected    ND

Chrysotile 28%

**Lab ID: 31001400      Client Sample #: DK-E-1-S**

Location: N/A

**Layer 1 of 1      Description:** Black asphaltic material

Non-Fibrous Materials:

Other Fibrous Materials: %

**Asbestos Type: %**

Asphalt/Binder

None Detected    ND

Chrysotile 32%

**Sampled by:** Client

**Analyzed by:** Alla Prysyzhnyuk

**Date:** 01/10/2011

# DRAFT

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.



# Fremont

2930 Westlake Ave. N. Suite 100  
Seattle, WA 98109  
Tel: 206-352-3790  
Fax: 206-352-7178

Date: 1/27/11

Page: 1 of 2

Laboratory Project No (Internal): CHM110107-5

## Chain of Custody Record

Client: Calbie - Grant Dawson Project Name: Watanville  
 Address: 17811 Wayne Ave N Location: Watanville  
 City, State, Zip: Shelton, WA 98137 Collected by: Grant Dawson Kyle Chamberlain  
 Reports To (PM): Tom Melton Fax: \_\_\_\_\_ Email: Tom.Melton@calbiewe373.com Project No: \_\_\_\_\_

Sample Name	Time	Sample Type (Matrix)	Container Type	Date of Collection	VOA 8260	VOA 8021B BTEX	NWTPH-Gx	NWTPH-HCID	NWTPH-Dx/Dx Ext	SEMI VOL 8270C	PAH 8270	PCBs 8082	CI PESTICIDES 8081	CI HERBICIDES 8151A	Metals*	Total (T)   Dissolved (D)	Anions (IC)**	H-CID	Asbestos	Comments/Depth
1 EV-C-1-R	1040	Soil	802	1/6/11											X	X	X			
2 T-1-R	1154	Soil	802	1/6/11											X	X	X			
3 MS-C-1-R	0950	Soil	802	1/6/11	X										X	X	X			
4 DK-W-1-S	1135	Soil	402	1/6/11														X		
5 P14-W-1-O-S	1120	Soil	802	1/6/11											X	X	X			
6 CH2-1-O3	1130	Soil	802	1/6/11											X	X	X			
7 P14-W-2-R	1115	Soil	802	1/6/11											X	X	X			Hold for analysis
8 RS-C-1-R	0930	Soil	802	1/6/11	X										X	X	X			
9 OH2-1-R	1150	Soil	802	1/6/11											X	X	X			
10 OH-E-1-S	1145	Soil	802	1/6/11											X	X	X			

\* Metals Analysis (Circle): MTCAs RCRA-8 Priority Pollutants: TAL Individual: Ag Al As B Ba Be Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

\*\* Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Relinquished: [Signature] Date/Time: 1/27/11 1140 Received: [Signature] Date/Time: 1/27/11 1140  
 Relinquished: [Signature] Date/Time: 1/27/11 1140 Received: [Signature] Date/Time: 1/27/11 1140

Sample Receipt: Good? + Cooler Temperature: 5.8 Seals Intact? W/A Total Number of Containers: 20 Special Remarks: TAT -> 24HR 48HR Standard



# Fremont

## Chain of Custody Record

2930 Westlake Ave. N. Suite 100  
Seattle, WA 98109

Tel: 206-352-3790  
Fax: 206-352-7178

Date: \_\_\_\_\_

Page: \_\_\_\_\_

of: \_\_\_\_\_

Client: \_\_\_\_\_

Project Name: \_\_\_\_\_

Address: \_\_\_\_\_

Location: \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Tel: \_\_\_\_\_

Collected by: \_\_\_\_\_

Reports To (PM): \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Project No: \_\_\_\_\_

Sample Name	Time	Sample Type (Matrix)	Container Type	Date of Collection	VOA 8260	VOA 8021B BTEX	NWTPH-Gx	NWTPH-HCID	NWTPH-Dx/Dx Ext.	SEMI VOL 8270C	PAH 8270	PCBs 8082	CI PESTICIDES 8081	CI HERBICIDES 8151A	Metals*	Total (T)   Dissolved (D)	Anions (IC)**	Comments/Depth	
1 TCANs 1-1-5	1150	Soil	202	V611								X							
2 TCANs 2-1-5	1155	Soil	402	V611								X							
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

\* Metals Analysis (Circle): MTCA-5 RCHA-8 Priority Pollutants TAL Individual Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

\*\* Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Relinquished: CAW Date/Time: 11/11/11 1140  
 Relinquished: CAW Date/Time: 11/11/11 1140  
 Received: [Signature] Date/Time: 11/11/11 1140  
 Received: [Signature] Date/Time: 11/11/11 1140

Sample Receipt: Good? \_\_\_\_\_ Cooler Temperature: \_\_\_\_\_ Seals intact? \_\_\_\_\_ Total Number of Containers: \_\_\_\_\_

Special Remarks: TAT -> 24HR 48HR Standard



2930 Westlake Ave N Suite 100  
Seattle, WA 98109  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**Calibre**  
**Attn: Tom McKeon**  
17811 Wayne Ave. N.  
Shoreline, WA 98133

**RE: Eatonville**  
**Fremont Project No: CHM110113-14**

January 19<sup>th</sup>, 2011

**Tom:**

Enclosed are the follow-up analytical results for the **Eatonville** soil sample submitted to Fremont Analytical on January 7<sup>th</sup>, 2011 (Initial report FA ID: CHM110107-5). The follow-up was requested on January 13<sup>th</sup>, 2011.

**Sample Analysis:**

Examination of this sample was conducted for the presence of the following:

- **Hydrocarbon Identification by NWTPH-HCID**
- **Total Metals (RCRA-8) by EPA Method 6020**

These applications were performed under Washington State Department of Ecology accreditation parameters. All appropriate Quality Assurance / Quality Control method parameters have been applied. Please contact the laboratory if you should have any questions about the results. There were no sample analysis issues to report.

**Laboratory Notations (NWTPH-HCID):** Possible "diesel range organics" was noted. The detection was below the laboratory reporting limits. The detection may be biogenic in origin.

Thank you for using Fremont Analytical!

Sincerely,

A handwritten signature in black ink, appearing to read "MDEE", is written over a light grey rectangular background.

Michael Dee  
Sr. Chemist / Principal  
mikedee@fremontanalytical.com



## Hydrocarbon Identification in Soil by NWTPH-HCID

**Project:** Eatonville  
**Client:** Calibre  
**Client Project #:** N/A  
**Lab Project #:** CHM110113-14

NWTPH-HCID (mg/kg)	MRL	Method Blank	LCS	Duplicate	
				PH-W-2-2	PH-W-2-2
Date Extracted		1/18/11	1/18/11	1/18/11	1/18/11
Date Analyzed		1/18/11	1/18/11	1/18/11	1/18/11
Matrix				Soil	Soil
Gasoline	20	nd		nd	nd
Mineral Spirits	30	nd		nd	nd
Kerosene	50	nd		nd	nd
Diesel (Fuel Oil)	50	nd	76.0%	nd	nd
Mineral Oil	100	nd		nd	nd
Heavy Oil	100	nd		nd	nd

### Surrogate Recovery

(Surr 1 ) 2-Fluorobiphenyl	72%	79%	100%	101%
(Surr 2) o-Terphenyl	68%	79%	100%	102%

"nd" Indicates not detected at listed reporting limits

"int" Indicates that interference prevents determination

"D" Indicates detection at or above the listed reporting limit

"C" Indicates coelution prevents determination

"MRL" Indicates Method Reporting Limit

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

Surrogate = 65% to 135%

Surrogate Concentration = 5.0 mg/kg



## Analysis of Total Metals in Soil by EPA Method 6020

**Project: Eatonville**  
**Client: Calibre**  
**Client Project #: N/A**  
**Lab Project #: CHM110113-14**

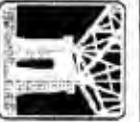
EPA 6020 (mg/kg)	MRL	Method Blank	LCS	Duplicate		RPD %	MS
				PH-W-2-2	PH-W-2-2		110113-5-1
Date Extracted		1/17/11	1/17/11	1/17/11	1/17/11		1/17/11
Date Analyzed		1/18/11	1/18/11	1/18/11	1/18/11		1/18/11
Matrix				Soil	Soil		Soil
Arsenic (As)	0.10	nd	123%	<b>11.0</b>	<b>12.2</b>	10%	97.3%
Barium (Ba)	0.50	nd	121%	<b>167</b>	<b>192</b>	14%	93.8%
Cadmium (Cd)	0.20	nd	121%	<b>0.285</b>	<b>0.266</b>	7%	98.0%
Chromium (Cr)	0.10	nd	131%	<b>22.1</b>	<b>28.2</b>	24%	96.5%
Lead (Pb)	0.20	nd	104%	<b>9.18</b>	<b>7.92</b>	15%	91.6%
Mercury (Hg)	0.20	nd	121%	nd	nd		98.0%
Selenium (Se)	0.50	nd	114%	nd	nd		97.4%
Silver (Ag)	0.10	nd	102%	nd	nd		96.4%

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:  
LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:  
As, Cr, Ba = 50 mg/kg  
Pb = 25 mg/kg  
Hg, Se = 10 mg/kg  
Cd, Ag = 2.5 mg/kg  
Hg = 1.0 mg/kg



# Fremont

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Seattle, WA 98109

Tel: 206-352-3790  
Fax: 206-352-7178

Date: 1/27/11

Laboratory Project No (Internal): CHM110107-5

Page: 1 of 2

## Chain of Custody Record

CHM110113-14  
CHM110107-5

Client: Cal-bie - Grant Dawson  
 Address: 17811 Wayne Ave N  
 City, State, Zip: Shoreline, WA 98133  
 Reports To (PM): Tom Melero  
 Project Name: Intermittent Grant Dawson  
 Location: 17811 Wayne Ave N  
 Collected by: Tom Melero  
 Email: Tom.Melero@cal-bie.com  
 Project No: CHM110107-5

Sample Name	Time	Sample Type (Matrix)	Container Type	Date of Collection	VOA 8260	VOA 8021B DTX	NW1P-H-G	NWT-H-PCD	NWT-H-DNDs-Ext	SEM-VOL 8270C	PAH 8270	PCBs 8082	CI PESTICIDES 8082	CI HERBICIDES 8151A	Metals*	Total T, Dissolved D	Anion (Cl)**	ACID	toxicol	Comments/Signatures
1 EV-C-1-2	10:40	Soil	202	1/16/11											X					
2 T-1-2	11:14	Soil	202	1/16/11											X					
3 MS-C-1-2	09:50	Soil	202	1/16/11											X					Hand Analysis per Grant Dawson @ Cal-bie 1/13/11
4 DK-W-1-5	11:35	Soil	402	1/16/11											X					
5 RH-W-1-0-5	11:30	Soil	202	1/16/11											X					
6 CHA-1-0-3	11:30	Soil	202	1/16/11											X					
7 RH-W-2-2	11:15	Soil	202	1/16/11											X					Hold S. analysis
8 RS-C-1-2	09:30	Soil	202	1/16/11											X					
9 CHA-1-2	11:50	Soil	202	1/16/11											X					
10 CHA-E-1-5	11:45	Soil	402	1/16/11											X					

Metal Analysis (Circle): MTCA 5 **RODA-8** Priority Pollutants TAL Individual: Ag N **As** B Ba Be Ca **Cd** Co Cr Cu Fe Hg K Mg Mn Mo Ni Pb Sn Se Sr Tl U V Zn

Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Phosphate Fluoride Nitrate-Nitrite

Relinquished: 1/27/11 11:40  
 Date/Time  
 Received: 1/27/11 11:40  
 Date/Time  
 Relinquished: 1/27/11 11:40  
 Date/Time

Sample Receipt:  
 Count? 4  
 Cooler Temperature: 5.8  
 Spills Intra-? Nil  
 Total Number of Containers: 20

Special Remarks: TAT -> 24HR 48HR Standard



2930 Westlake Ave N Suite 100  
Seattle, WA 98109  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**Calibre**

**Attn: Tom McKeon**  
17811 Wayne Ave. N.  
Shoreline, WA 98133

**RE: Eatonville**  
**Fremont Project No: CHM110124-1**

January 25<sup>th</sup>, 2011

**Tom:**

Enclosed are the analytical results for the **Eatonville** soil samples submitted to Fremont Analytical on January 24<sup>th</sup>, 2011.

**Sample Receipt:**

The samples were received in good condition – in the proper containers, properly sealed, labeled and within holding time. The samples were contained in 2 – 8oz sample containers. The samples were stored in a refrigeration unit at the USEPA-recommended temperature of 4°C ± 2°C. There were no sample receipt issues to report.

**Sample Analysis:**

Examination of these samples was conducted for the presence of the following:

- **Total Metals (RCRA-8) by EPA Method 6020**

This application was performed under Washington State Department of Ecology accreditation parameters. All appropriate Quality Assurance / Quality Control method parameters have been applied.

**Laboratory Notations (Matrix):**

- The *relative percent difference (RPD%)* between the sample and sample duplicate exceeded the laboratory control limit for *Lead* (32%, limit = 30%). All other *RPD%* values were within range.
- The *Matrix Spike Duplicate (MSD)* spike recovery for *Barium* was outside of the laboratory recommended control limit (139%, upper limit = 135%). The *Matrix Spike (MS)* spike recovery and the *Laboratory Control Sample (LCS)* was within range.

Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical!

Sincerely,

A handwritten signature in black ink, appearing to read "M. Clements", written in a cursive style.

Michelle Clements  
Lab Manager / Sr. Chemist  
mclements@fremontanalytical.com



## Analysis of Total Metals in Soil by EPA Method 6020

Project: Centerpoint/Eatonville  
Client: Calibre  
Client Project #: N/A  
Lab Project #: CHM110124-1

EPA 6020 (mg/kg)	MRL	Method Blank	LCS	Duplicate		RPD %	MS	MSD	RPD %
				PH-Ash-1	PH-Ash-1		110120-10-1	110120-10-1	
Date Extracted		1/24/11	1/24/11	1/24/11	1/24/11		1/24/11	1/24/11	
Date Analyzed		1/24/11	1/24/11	1/24/11	1/24/11		1/24/11	1/24/11	
Matrix				Soil	Soil		Soil	Soil	
Arsenic (As)	0.10	nd	97.7%	<b>24.0</b>	<b>20.1</b>	18%	118%	126%	7%
Barium (Ba)	0.50	nd	95.5%	<b>2580</b>	<b>1920</b>	29%	133%	139%	5%
Cadmium (Cd)	0.20	nd	91.6%	<b>9.81</b>	<b>7.60</b>	25%	119%	116%	2%
Chromium (Cr)	0.10	nd	89.4%	<b>54.9</b>	<b>42.9</b>	25%	111%	118%	6%
Lead (Pb)	0.20	nd	82.3%	<b>166</b>	<b>121</b>	32%	112%	119%	5%
Mercury (Hg)	0.20	nd	89.9%	nd	nd		114%	112%	1%
Selenium (Se)	0.50	nd	106%	nd	nd		118%	120%	2%
Silver (Ag)	0.10	nd	82.0%	<b>0.501</b>	<b>0.385</b>	26%	112%	110%	2%

"nd" Indicates no detection at the listed reporting limits

"int" Indicates that interference prevents determination

"J" Indicates estimated value

"MRL" Indicates Method Reporting Limit

"LCS" Indicates Laboratory Control Sample

"MS" Indicates Matrix Spike

"MSD" Indicates Matrix Spike Duplicate

"RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

As, Cr, Ba = 50 mg/kg

Pb = 25 mg/kg

Hg, Se = 10 mg/kg

Cd, Ag = 2.5 mg/kg

# Chain of Custody Record & Laboratory Analysis Request

ATM 110124-1  
 Fremont Analytical



**Fremont Analytical**  
 Analytical Resources, Inc. (operated)  
 Analytical Chemists and Consultants  
 4611 South 134th Place, Suite 100  
 Tukwila WA 98168  
 206-495-6200 206-695-6201 (fax)

ARI Assigned Number:		Turn-around Requested:		Date:	1/23/11		
ARI Client Company:		Phone:		Page:	1 of 1		
Client Contact:		425 643 4634		No. of Coolers:	1		
Client Project Name:		Center Point / Esterville		Cooler Temps:	1		
Client Project #:		Samplers:		Analysis Requested			
		T McKeon		Notes/Comments			
Sample ID	Date	Time	Matrix	No. Containers			
PH-Ash-1	1/23	1630	S	1	RCRA metals X		
PH-Ash-2	1/23	1630	S	1	TCLP metals X		
Comments/Special Instructions		Relinquished by:		Received by:		Relinquished by:	
		(Signature) Tom Mch		(Signature) Mike Pimentieri		(Signature)	
		Printed Name: Tom McKeon		Printed Name: Mike Pimentieri		Printed Name:	
		Company: Calbre		Company: FAI		Company:	
		Date & Time: 1/23/11		Date & Time: 1/24/11		Date & Time:	

SPAH THER

hold for analysis

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

**Sample Retention Policy:** All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.



2930 Westlake Ave N Suite 100  
Seattle, WA 98109  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**Calibre**

**Attn: Tom McKeon**  
17811 Wayne Ave. N.  
Shoreline, WA 98133

**RE: Eatonville Phase II**  
**Fremont Project No: CHM110120-1**  
**Calibre Project No: K 0159 00**

January 28<sup>th</sup>, 2011

**Tom:**

Enclosed are the analytical results for the **Eatonville Phase II** water samples submitted to Fremont Analytical on January 20<sup>th</sup>, 2011.

**Sample Receipt:** The samples were received in good condition – in the proper containers, properly sealed, labeled and within holding time. The samples were contained in 5 – 1L glass Ambers with HCl, 4 – 40mL VOAs preserved with HCl and 4 – 500mL HDPE bottles (2 preserved with HNO<sub>3</sub>). The samples were received in a cooler with wet ice, with a cooler temperature of 2.9°C, which is within the laboratory recommended cooler temperature range (<4°C - 10°C). The samples were stored in a refrigeration unit at the USEPA-recommended temperature of 4°C ± 2°C. There were no sample receipt issues to report.

**Sample Analysis:** Examination of these samples was conducted for the presence of the following:

- **Volatile Organic Compounds by EPA Method 8260**
- **Hydrocarbon Identification by NWTPH-HCID**
- **Total Metals (RCRA-8) by EPA Method 200.8**
- **Nitrate and Nitrite by EPA Method 300.0**

These applications were performed under Washington State Department of Ecology accreditation parameters. All appropriate Quality Assurance / Quality Control method parameters have been applied.

**Laboratory Notations (EPA 200.8):** The *relative percent difference (RPD%)* between the sample and sample duplicate (Sample ID: GP-5-17-1-19-11) exceeded the laboratory recommended control limit for *Cadmium*. All other RPD% values were within range. In addition the RPD% value between the *Matrix Spike (MS)/MS Duplicate* was within range for the same sample.

Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical!

Sincerely,

A handwritten signature in black ink, appearing to read "MDEE", is written over a light blue circular stamp.

Michael Dee  
Sr. Chemist / Principal

mikedee@fremontanalytical.com



## Analysis of Volatile Organic Compounds in Water by EPA Method 8260

**Project:** Eatonville Phase II  
**Client:** Calibre  
**Client Project #:** K 0159 000  
**Lab Project #:** CHM110120-1

EPA 8260B (µg/L)	MRL	Method Blank	LCS	GP-5-17-1-19-11	Duplicate	MS
					GP-5-17-1-19-11	GP-5-17-1-19-11
Date Analyzed		1/27/11	1/27/10	1/27/10	1/27/10	1/27/10
Matrix				Water	Water	Water
Dichlorodifluoromethane (CFC-12)	1.0	nd		nd	nd	
Chloromethane	1.0	nd		nd	nd	
Vinyl chloride *	0.2	nd		nd	nd	
Bromomethane	1.0	nd		nd	nd	
Chloroethane	1.0	nd		nd	nd	
Trichlorofluoromethane (CFC-11)	1.0	nd		nd	nd	
1,1-Dichloroethene	1.0	nd	95.5%	nd	nd	107%
Methylene chloride	1.0	nd		nd	nd	
trans-1,2-Dichloroethene	1.0	nd		nd	nd	
1,1-Dichloroethane	1.0	nd		nd	nd	
2,2-Dichloropropane	2.0	nd		nd	nd	
cis-1,2-Dichloroethene	1.0	nd		nd	nd	
Chloroform	1.0	nd		nd	nd	
1,1-Dichloropropene	1.0	nd		nd	nd	
Carbon tetrachloride	1.0	nd		nd	nd	
1,1,1-Trichloroethane (TCA)	1.0	nd		nd	nd	
Benzene	1.0	nd	96.7%	nd	nd	89.2%
1,2-Dichloroethane (EDC)	1.0	nd		nd	nd	
Trichloroethene (TCE)	1.0	nd	109%	nd	nd	93.1%
1,2-Dichloropropane	1.0	nd		nd	nd	

"nd" Indicates not detected at listed reporting limits  
 "int" Indicates that interference prevents determination  
 \* Instrument Detection Limit  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%  
Acceptable Recovery Limits:  
 Surrogate = 65% to 135%  
 LCS, LCSD, MS, MSD = 65% to 135%  
 Surrogate Concentration = 10 µg/L  
 Spike Concentration = 10 µg/L



## Analysis of Volatile Organic Compounds in Water by EPA Method 8260

**Project: Eatonville Phase II**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110120-1**

EPA 8260B (µg/L)	MRL	Method Blank	LCS	GP-5-17-1-19-11	Duplicate	MS
					GP-5-17-1-19-11	GP-5-17-1-19-11
Date Analyzed		1/27/11	1/27/10	1/27/10	1/27/10	1/27/10
Matrix				Water	Water	Water
Dibromomethane	1.0	nd		nd	nd	
Bromodichloromethane	1.0	nd		nd	nd	
cis-1,3-Dichloropropene	1.0	nd		nd	nd	
Toluene	1.0	nd	99.4%	nd	nd	86.4%
Trans-1,3-Dichloropropene	1.0	nd		nd	nd	
1,1,2-Trichloroethane	1.0	nd		nd	nd	
Tetrachloroethene (PCE)	1.0	nd		nd	nd	
1,3-Dichloropropane	1.0	nd		nd	nd	
Dibromochloromethane	1.0	nd		nd	nd	
1,2-Dibromoethane (EDB) *	0.01	nd		nd	nd	
Chlorobenzene	1.0	nd	95.8%	nd	nd	76.8%
1,1,1,2-Tetrachloroethane	1.0	nd		nd	nd	
Ethylbenzene	1.0	nd		nd	nd	
Total Xylenes	1.0	nd		nd	nd	
Styrenes	1.0	nd		nd	nd	
Bromoform	1.0	nd		nd	nd	
Isopropylbenzene	2.0	nd		nd	nd	
1,2,3-Trichloropropane	1.0	nd		nd	nd	
Bromobenzene	1.0	nd		nd	nd	
1,1,1,2,2-Tetrachloroethane	1.0	nd		nd	nd	

"nd" Indicates not detected at listed reporting limits  
 "int" Indicates that interference prevents determination  
 \* Instrument Detection Limit  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
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 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%  
Acceptable Recovery Limits:  
 Surrogate = 65% to 135%  
 LCS, LCSD, MS, MSD = 65% to 135%  
 Surrogate Concentration = 10 µg/L  
 Spike Concentration = 10 µg/L

## Analysis of Volatile Organic Compounds in Water by EPA Method 8260

**Project: Eatonville Phase II**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110120-1**

EPA 8260B (µg/L)	MRL	Method Blank	LCS	GP-5-17-1-19-11	Duplicate	MS
					GP-5-17-1-19-11	GP-5-17-1-19-11
Date Analyzed		1/27/11	1/27/10	1/27/10	1/27/10	1/27/10
Matrix				Water	Water	Water
n-Propylbenzene	1.0	nd		nd	nd	
2-Chlorotoluene	1.0	nd		nd	nd	
4-Chlorotoluene	1.0	nd		nd	nd	
1,3,5-Trimethylbenzene	1.0	nd		nd	nd	
tert-Butylbenzene	1.0	nd		nd	nd	
1,2,4-Trimethylbenzene	1.0	nd		nd	nd	
sec-Butylbenzene	1.0	nd		nd	nd	
1,3-Dichlorobenzene	1.0	nd		nd	nd	
4-Isopropyltoluene	1.0	nd		nd	nd	
1,4-Dichlorobenzene	1.0	nd		nd	nd	
1,2-Dichlorobenzene	1.0	nd		nd	nd	
n-Butylbenzene	1.0	nd		nd	nd	
1,2-Dibromo-3-Chloropropane	1.0	nd		nd	nd	
1,2,4-Trichlorobenzene	2.0	nd		nd	nd	
Hexachloro-1,3-butadiene	4.0	nd		nd	nd	
Naphthalene	4.0	nd		nd	nd	
1,2,3-Trichlorobenzene	4.0	nd		nd	nd	

### Surrogate Recovery

Dibromofluoromethane	107%	102%	107%	107%	111%
Toluene-d8	102%	100%	102%	102%	102%
1-Bromo-4-fluorobenzene	101%	100%	104%	101%	105%

"nd" Indicates not detected at listed reporting limits

"int" Indicates that interference prevents determination

\* Instrument Detection Limit

"J" Indicates estimated value

"MRL" Indicates Method Reporting Limit

"LCS" Indicates Laboratory Control Sample

"MS" Indicates Matrix Spike

"MSD" Indicates Matrix Spike Duplicate

"RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

Surrogate = 65% to 135%

LCS, LCSD, MS, MSD = 65% to 135%

Surrogate Concentration = 10 µg/L

Spike Concentration = 10 µg/L



## Hydrocarbon Identification in Water by NWTPH-HCID

**Project: Eatonville Phase II**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110120-1**

<b>NWTPH-HCID (ug/L)</b>	<b>MRL</b>	<b>Method Blank</b>	<b>LCS</b>	<b>GP-1-17-1-19-11</b>	<b>GP-2-17-1-19-11</b>	<b>GP-3-13-1-19-11</b>
Date Extracted		1/25/11	1/25/11	1/25/11	1/25/11	1/25/11
Date Analyzed		1/26/11	1/26/11	1/26/11	1/26/11	1/26/11
Matrix				Water	Water	Water
Gasoline	400	nd		nd	nd	nd
Mineral Spirits	500	nd		nd	nd	nd
Kerosene	500	nd		nd	nd	nd
Diesel Range Organics (DRO)	500	nd		nd	<b>D</b>	nd
Diesel (Fuel Oil)	500	nd	119%	nd	nd	nd
Mineral Oil	500	nd		nd	nd	nd
Heavy Oil	500	nd		nd	<b>D</b>	nd

### **Surrogate Recovery**

(Surr 1 ) 2-Fluorobiphenyl	74%	118%	90%	80%	84%
(Surr 2) o-Terphenyl	80%	133%	87%	94%	86%

"nd" Indicates not detected at listed reporting limits  
 "int" Indicates that interference prevents determination  
 "D" Indicates detection at or above the listed reporting limit  
 "C" Indicates coelution prevents determination  
 "MRL" Indicates Method Reporting Limit

Acceptable RPD is determined to be less than 30%

#### Acceptable Recovery Limits:

Surrogate = 65% to 135%  
 Surrogate Concentration = 40 µg/L



## Hydrocarbon Identification in Water by NWTPH-HCID

**Project: Eatonville Phase II**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110120-1**

NWTPH-HCID (ug/L)	MRL	Duplicate		
		GP-4-19-1-19-11	GP-5-17-1-19-11	GP-5-17-1-19-11
Date Extracted		1/25/11	1/25/11	1/25/11
Date Analyzed		1/26/11	1/26/11	1/26/11
Matrix		Water	Water	Water
Gasoline	400	nd	nd	nd
Mineral Spirits	500	nd	nd	nd
Kerosene	500	nd	nd	nd
Diesel Range Organics (DRO)	500	nd	nd	nd
Diesel (Fuel Oil)	500	nd	nd	nd
Mineral Oil	500	nd	nd	nd
Heavy Oil	500	nd	nd	nd

### **Surrogate Recovery**

(Surr 1 ) 2-Fluorobiphenyl	75%	84%	82%
(Surr 2) o-Terphenyl	86%	89%	86%

"nd" Indicates not detected at listed reporting limits  
 "int" Indicates that interference prevents determination  
 "D" Indicates detection at or above the listed reporting  
 "C" Indicates coelution prevents determination  
 "MRL" Indicates Method Reporting Limit

Acceptable RPD is determined to be less than 30%

#### Acceptable Recovery Limits:

Surrogate = 65% to 135%  
 Surrogate Concentration = 40 µg/L



## Analysis of Total Metals in Water by EPA Method 200.8

**Project: Eatonville Phase II**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110120-1**

EPA 200.8 (µg/L)	MRL	Method Blank	LCS	Duplicate		RPD %
				GP-5-17-1-19-11	GP-5-17-1-19-11	
Date Extracted		1/25/11	1/25/11	1/25/11	1/25/11	
Date Analyzed		1/25/11	1/25/11	1/25/11	1/25/11	
Matrix				Water	Water	
Antimony (Sb)	0.2	nd	105%	<b>1.16</b>	<b>1.57</b>	30%
Arsenic (As)	1.0	nd	89.8%	<b>68.1</b>	<b>68.9</b>	1%
Beryllium (Be)	0.2	nd	97.4%	<b>2.64</b>	<b>3.19</b>	19%
Cadmium (Cd)	0.2	nd	96.8%	<b>0.551</b>	<b>0.258</b>	72%
Chromium (Cr)	0.5	nd	107%	<b>112</b>	<b>125</b>	11%
Copper (Cu)	0.5	nd	86.3%	<b>194</b>	<b>202</b>	4%
Lead (Pb)	1.0	nd	91.1%	<b>18.5</b>	<b>20.3</b>	9%
Mercury (Hg)	0.3	nd	113%	<b>0.636</b>	<b>0.497</b>	24%
Nickel (Ni)	0.5	nd	103%	<b>72.1</b>	<b>68.4</b>	5%
Selenium (Se)	1.0	nd	88.6%	nd	nd	
Silver (Ag)	0.2	nd	101%	nd	nd	
Thallium (Tl)	0.2	nd	101%	<b>0.457</b>	<b>0.423</b>	8%
Zinc (Zn)	1.5	nd	105%	<b>157</b>	<b>166</b>	6%

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS: 85% to 115%  
MS/MSD: 70% to 130%

Spike Concentrations:

As, Cr, Cu, Ni, Zn, = 100 µg/L  
 Pb = 50 µg/L  
 Se, Hg = 10 µg/L  
 Cd, Ag, Sb, Be = 5 µg/L  
 Tl = 2.5 µg/L



## Analysis of Total Metals in Water by EPA Method 200.8

**Project: Eatonville Phase II**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110120-1**

EPA 200.8 (µg/L)	MRL	MS	MSD	RPD %
		GP-5-17-1-19-11	GP-5-17-1-19-11	
Date Extracted		1/25/11	1/25/11	
Date Analyzed		1/25/11	1/25/11	
Matrix		Water	Water	
Antimony (Sb)	0.2	84.0%	73.7%	13%
Arsenic (As)	1.0	82.6%	80.4%	3%
Beryllium (Be)	0.2	88.8%	83.8%	6%
Cadmium (Cd)	0.2	93.6%	94.7%	1%
Chromium (Cr)	0.5	101%	111%	9%
Copper (Cu)	0.5	80.7%	91.9%	13%
Lead (Pb)	1.0	106%	101%	4%
Mercury (Hg)	0.3	117%	110%	7%
Nickel (Ni)	0.5	88.8%	92.5%	4%
Selenium (Se)	1.0	71.6%	71.2%	0.6%
Silver (Ag)	0.2	98.3%	97.5%	0.9%
Thallium (Tl)	0.2	114%	114%	0.4%
Zinc (Zn)	1.5	95.4%	94.2%	1%

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS: 85% to 115%  
MS/MSD: 70% to 130%

Spike Concentrations:

As, Cr, Cu, Ni, Zn, = 100 µg/L  
 Pb = 50 µg/L  
 Se, Hg = 10 µg/L  
 Cd, Ag, Sb, Be = 5 µg/L  
 Tl = 2.5 µg/L



2930 Westlake Ave. N., Suite 100  
Seattle, WA 98109

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F: 206.352.7178  
email: info@fremontanalytical.com

## Ion Chromatography by EPA Method 300.0

Project: Eatonville Phase II  
Client: Calibre  
Client Project #: K 0159 000  
Lab Project #: CHM110120-1

EPA Method 300.0 (mg/L)	MRL	Method Blank	LCS	Duplicate		RPD %
				GP-5-17-1-19-11	GP-5-17-1-19-11	
Date Analyzed		1/20/11	1/20/11	1/20/11	1/20/11	
Matrix				Water	Water	
Nitrate (NO <sub>3</sub> )	0.1	nd	100%	<b>1.08</b>	<b>1.02</b>	5%
Nitrite (NO <sub>2</sub> )	0.1	nd	96.3%	nd	nd	

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

NO<sub>2</sub> = 1.5 mg/L  
NO<sub>3</sub> = 1.5 mg/L



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email: info@fremontanalytical.com

## Ion Chromatography by EPA Method 300.0

**Project:** Eatonville Phase II  
**Client:** Calibre  
**Client Project #:** K 0159 000  
**Lab Project #:** CHM110120-1

EPA Method 300.0 (mg/L)	MRL	MS	MSD	RPD %
		110119-6-2	110119-6-2	
Date Analyzed		1/20/11	1/20/11	
Matrix		Water	Water	
Nitrate (NO <sub>3</sub> )	0.1	100%	101%	0.9%
Nitrite (NO <sub>2</sub> )	0.1	98.2%	100%	1%

"nd" Indicates no detection at the listed reporting limits

"int" Indicates that interference prevents determination

"J" Indicates estimated value

"MRL" Indicates Method Reporting Limit

"LCS" Indicates Laboratory Control Sample

"MS" Indicates Matrix Spike

"MSD" Indicates Matrix Spike Duplicate

"RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

NO<sub>2</sub> = 1.5 mg/L

NO<sub>3</sub> = 1.5 mg/L



# Fremont

## Chain of Custody Record

2930 Westlake Ave. N, Suite 100  
Seattle, WA 98109

Tel: 206-352-3790  
Fax: 206-352-7128

Date: 1-19-11

Laboratory Project No (Internal): 44MM120-1  
Page: 1 of 1

Client: CALIFRE

Project Name: EATONVILLE PHASE II

Address: 16935 SE 34th St

Location: EATONVILLE, WA

City, State, Zip: RELEVUE WA 98608

Reports To (PM): Tom McLean

Tel: 425-613-4634

Project No: KV159 000

Collected by: Tom McLean

Project No: KV159 000

Sample Name	Time	Sample Type (Matrix)	Container Type	Date of Collection	VOA 8260C	VOA 8021B BTEX	NWTPH-Gx	NWTPH-HCID	NWTPH-Dx/Dx Ext.	SEMI VOL 8270C	PAH 8270	PCBs 8082	CI PESTICIDES 8081	CI HERBICIDES 8151A	Metals*	Total (T)   Dissolved (D)	Anions (IC)**	Comments/Depth
1 GP-1-17-1-19-11	09:48	Water		1-17-11				X										
2 GP-2-17-1-19-11	11:02	Water		1-17-11				X										
3 GP-3-13-1-19-11	12:07	Water		1-17-11				X										
4 GP-4-19-1-19-11	13:55	Water		1-17-11				X										
5 GP-5-17-1-19-11	15:30	Water		1-19-11	X			X										DISOLVED METALS THROUGH THE SPECIAL ANALYSIS
6																		
7																		
8																		
9																		
10																		

\*Metals Analysis (Circle): MICA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Relinquished	Date/Time	Received	Date/Time
x <u>Shirina Nixty</u>	<u>1/20/11 08:25</u>	x <u>Shirina Nixty</u>	<u>1/20/11 08:25</u>
Relinquished	Date/Time	Received	Date/Time
x <u>Shirina Nixty</u>	<u>1/20/11 08:25</u>	x <u>Shirina Nixty</u>	<u>1/20/11 08:25</u>

Sample Receipt:

Good? Y

Cooler Temperature: 2.9

Seals Intact? N/A

Total Number of Containers: 13

Special Remarks:

TAT -> 24HR 48HR Standard



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info@fremontanalytical.com

**Calibre**  
**Attn: Tom McKeon**  
17811 Wayne Ave. N.  
Shoreline, WA 98133

**RE: Eatonville**  
**Fremont Project No: CHM110128-2**

February 1<sup>st</sup>, 2011

**Tom:**

Enclosed are the follow-up analytical results for the **Eatonville** soil and water samples submitted to Fremont Analytical on January 7<sup>th</sup>, 20<sup>th</sup> & 23<sup>rd</sup>, 2011. The follow-up was requested on January 28<sup>th</sup>, 2011.

**Sample Analysis:**

Examination of these samples was conducted for the presence of the following:

- **Total Metals (Cu) by EPA Method 6020**
- **Dissolved Metals by EPA Method 200.8**

These applications were performed under Washington State Department of Ecology accreditation parameters. All appropriate Quality Assurance / Quality Control method parameters have been applied.

**Laboratory Notations (EPA 200.8):** The *relative percent difference (RPD%)* between the sample and sample duplicate exceeded the laboratory recommended limit for *Arsenic* and *Copper* (44%, 55% respectively. Limit = 30%). All other *RPD%* values were within range. The *Arsenic* and *Copper RPD%* values between the *Matrix Spike (MS)* and *MS Duplicate* were within range for the same sample.

Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical!

Sincerely,

A handwritten signature in black ink that reads "Michelle Clements".

Michelle Clements  
Lab Manager / Sr. Chemist  
mclements@fremontanalytical.com



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## Analysis of Total Metals in Soil by EPA Method 6020

**Project:** Eatonville  
**Client:** Calibre  
**Client Project #:** K 0159 000  
**Lab Project #:** CHM110128-2

EPA 6020 (mg/kg)	MRL	Method		LCS	LCS	PH-W-1-0-5	PH-ASH-1	PH-ASH-1	Duplicate	RPD %
		Blank	Blank							
Date Extracted		1/6/11	1/24/11	1/6/11	1/24/11	1/7/11	1/24/11	1/24/11		
Date Analyzed		1/7/11	1/24/11	1/7/11	1/24/11	1/7/11	1/24/11	1/24/11		
Matrix						Soil	Soil	Soil		
Copper (Cu)	0.20	nd	nd	77.1%	97.9%	<b>989</b>	<b>267</b>	<b>200</b>		29%

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

Cu = 100 µg/L



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## Analysis of Total Metals in Soil by EPA Method 6020

**Project: Eatonville**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110128-2**

		MS	MSD		MS	MSD	
<b>EPA 6020</b>	<b>MRL</b>	101222-2-5	101222-2-5	<b>RPD</b>	110120-10-1	110120-10-1	<b>RPD</b>
<b>(mg/kg)</b>				<b>%</b>			<b>%</b>
Date Extracted		1/6/11	1/6/11		1/24/11	1/24/11	
Date Analyzed		1/7/11	1/7/11		1/24/11	1/24/11	
Matrix		Soil	Soil		Soil	Soil	
Copper (Cu)	0.20	74.0%	86.0%	15%	106%	114%	7%

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

Cu = 100 µg/L



## Analysis of Dissolved Metals in Water by EPA Method 6020

**Project: Eatonville**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110128-2**

EPA 6020 (µg/L)	MRL	Method Blank	LCS	Duplicate		RPD %
				GP-5-17-1-19-11	GP-5-17-1-19-11	
Date Extracted		1/28/11	1/28/11	1/28/11	1/28/11	
Date Analyzed		1/28/11	1/28/11	1/28/11	1/28/11	
Matrix				Water	Water	
Antimony (Sb)	0.20	nd	104%	nd	nd	
Arsenic (As)	1.0	nd	107%	<b>1.80</b>	<b>1.15</b>	44%
Beryllium (Be)	0.20	nd	94.4%	<b>8.90</b>	<b>8.50</b>	5%
Cadmium (Cd)	0.20	nd	102%	nd	nd	
Chromium (Cr)	0.50	nd	92.1%	<b>5.20</b>	<b>3.90</b>	29%
Copper (Cu)	0.50	nd	92.1%	<b>0.950</b>	<b>0.550</b>	53%
Lead (Pb)	1.0	nd	86.6%	nd	nd	
Mercury (Hg)	0.30	nd	113%	nd	nd	
Nickel (Ni)	0.50	nd	93.1%	<b>0.800</b>	<b>0.650</b>	21%
Selenium (Se)	1.0	nd	93.9%	nd	nd	
Silver (Ag)	0.20	nd	86.8%	nd	nd	
Thallium (Tl)	0.20	nd	94.2%	nd	nd	
Zinc (Zn)	1.5	nd	120%	<b>2.40</b>	<b>2.25</b>	6%

"nd" Indicates no detection at the listed reporting limits  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

As, Cr, Cu, Ni, Zn, = 100 µg/L  
 Pb = 50 µg/L  
 Se, Hg = 10 µg/L  
 Cd, Ag, Sb, Be = 5 µg/L  
 Tl = 2.5 µg/L



## Analysis of Dissolved Metals in Water by EPA Method 6020

**Project: Eatonville**  
**Client: Calibre**  
**Client Project #: K 0159 000**  
**Lab Project #: CHM110128-2**

EPA 6020 (µg/L)	MRL	MS	MSD	RPD %
		GP-5-17-1-19-11	GP-5-17-1-19-11	
Date Extracted		1/28/11	1/28/11	
Date Analyzed		1/28/11	1/28/11	
Matrix		Water	Water	
Antimony (Sb)	0.20	100%	115%	14%
Arsenic (As)	1.0	110%	119%	8%
Beryllium (Be)	0.20	112%	128%	14%
Cadmium (Cd)	0.20	103%	111%	7%
Chromium (Cr)	0.50	79.2%	91.7%	15%
Copper (Cu)	0.50	72.4%	76.6%	6%
Lead (Pb)	1.0	91.3%	98.6%	8%
Mercury (Hg)	0.30	97.2%	94.4%	3%
Nickel (Ni)	0.50	79%	85.3%	7%
Selenium (Se)	1.0	100%	109%	8%
Silver (Ag)	0.20	82.4%	91.6%	11%
Thallium (Tl)	0.20	98.0%	107%	9%
Zinc (Zn)	1.5	123%	117%	5%

"nd" Indicates no detection at the listed reporting limit  
 "int" Indicates that interference prevents determination  
 "J" Indicates estimated value  
 "MRL" Indicates Method Reporting Limit  
 "LCS" Indicates Laboratory Control Sample  
 "MS" Indicates Matrix Spike  
 "MSD" Indicates Matrix Spike Duplicate  
 "RPD" Indicates Relative Percent Difference

Acceptable RPD is determined to be less than 30%

Acceptable Recovery Limits:

LCS, LCSD, MS, MSD: 65% to 135%

Spike Concentrations:

As, Cr, Cu, Ni, Zn, = 100 µg/L  
 Pb = 50 µg/L  
 Se, Hg = 10 µg/L  
 Cd, Ag, Sb, Be = 5 µg/L  
 Tl = 2.5 µg/L



# Fremont

2930 Westlake Ave. N. Suite 100  
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Fax: 206-352-7178

Date: 1/27/11

Page: 1 of 2

Laboratory Project No (Internal):

ATTM1101-5

11/11/11 12:58-3

## Chain of Custody Record

Client: Calibie - Grant Dawson Project Name: Estherville

Address: 17811 Westgate Ave N Location: Estherville

City, State, Zip: Shelburne, VT 05473 Collected by: Grant Dawson

Reports To (PM): Tom Melton Fax: Tom Melton Email: Tom.Melton@calibie.com

Sample Name	Time	Sample Type (Matrix)	Container Type	Date of Collection	VOA 8260	VOA 8021B BTEX	NW1PH-Gs	NW1PH-HC D	NW1PH- Ds/Os Ext	SEM- VOL 8270C	PAH 8270	PCBs 8082	CI PESTICIDES 8081	CI HERBICIDES 8151A	Metals*	Total (T) / Dissolved (D)	Anion (IC)**	Other	Special Remarks
1 EV-C-1-2	10:10	Soil	202	1/27/11											X	X	X		
2 T-1-2	11:14	Soil	202	1/27/11											X	X	X		
3 MS-C-1-2	09:50	Soil	202	1/27/11											X	X	X		
4 DK-W-1-5	11:35	Soil	403	1/27/11											X	X	X		
5 RH-W-1-0-5	11:30	Soil	202	1/27/11											X	X	X		- Add Cu
6 CH2-1-0-3	11:30	Soil	202	1/27/11											X	X	X		
7 RH-W-2-2	11:15	Soil	202	1/27/11											X	X	X		Hold for analysis
8 RS-C-1-2	09:30	Soil	202	1/27/11											X	X	X		
9 CH2-1-2	11:50	Soil	202	1/27/11											X	X	X		
10 RH-E-1-5	11:45	Soil	202	1/27/11											X	X	X		

\*Metals Analysis (Circle): MTCA 5 (RCD 8) Priority Pollutants TML Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn No Na Ni Pb Sb Se Sr Sn Ti U V Zn

\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Requester: Calibie Date/Time: 1/27/11 11:40 Received: [Signature] Date/Time: 1/27/11 11:40

Revised: [Signature] Date/Time: 1/27/11 11:40

Good? Y Cooler Temperature: 5.8

Seal Intact? Y Total Number of Containers: 20

TAT: 5 ZADR: 48HR Standard: [Signature]

# Chain of Custody Record & Laboratory Analysis Request

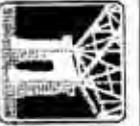
ARI Assigned Number:		Turn-around Requested:		Date:	1/23/11	
ARI Client Company:		Phone:		Page:	1 of 1	
Client Contact:		425 643 4634		No. of Coolers:	1 of 1	
Client Project Name:		Tom McKern		Cooler Temps:		
Client Project #:		Center Point / Eatonville		Analysis Requested		
Sample ID		Date	Time	Matrix	No. Coolers	Notes/Comments
PIH-Ash-1		1/23	1030	S	1	RCA OC metals TCLP metals Cu
PIH-Ash-2		1/23	1030	S	1	
Comments/Special Instructions		Relinquished by (Signature)	Printed Name	Company	Date & Time	Received by (Signature)
		Tom McKern	Tom McKern	FAI	1/24/11 9:30	Mike P. Denton
		Printed Name	Company	Date & Time	Received by (Signature)	Printed Name
		Tom McKern	FAI	1/24/11 9:30	Mike P. Denton	



**Analytical Resources Incorporated**  
 Analytical Chemists and Consultants  
 4611 South 14th Place, Suite 100  
 Tukwila WA 98168  
 206-695-6280 206-695-6201 FAX

**Limits of Liability:** ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

**Sample Retention Policy:** All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer unless alternate retention schedules have been established by work-order or contract.



# Fremont

## Chain of Custody Record

2930 Westlake Ave. N. Suite 100  
Seattle, WA 98109

Tel: 206-352-3790  
Fax: 206-352-7178

Laboratory Project No (Internal): ATTM10001  
Page 1 of 1

Client: CALITRE

Project Name: SEATTLE PHASE II

Address: 16135 SE 8TH ST

Location: SEATTLE, WA

City, State, Zip: RELEVUE, WA 98148

Collected by: EVANVILLE

Project No: 201511001

Reports To (PM): TIM MCELERN

Email: tim.mcelern@calitre.com

Sample Name	Time	Sample Type (Material)	Container Type	Date of Collection	VOA 8260C	VOA 8018 BTEX	NWTPH-G*	NWTPH-HClD	NWTPH-Dx/Dx Ext	SEMI VOL 8270C	PAH 8270	PCBS 8082	CI PESTICIDES 8081	CI HERBICIDES 8151A	Metals*	Total (T)   Dissolved (D)	Anions (IC)**	Comments/Depth
1 GP-1-17-1-19-11	10:48	water		1-17-11				X										
2 GP-2-17-1-19-11	11:02	water		1-17-11				X										
3 GP-3-13-1-19-11	12:07	water		1-17-11				X										
4 GP-4-19-1-19-11	13:55	water		1-19-11				X										
5 GP-5-17-1-19-11	15:30	water		1-19-11	X			X										DISCUSSED PERMANENTLY FOR THE A/PARTY
6																		
7																		
8																		
9																		
10																		

Metals Analysis (Circle): MICA-S RCHA-B Priority pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Se Sr Sn Ti Tl U V Zn

Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O Phosphate Fluoride Nitrate+Nitrite

Relinquished: Shirley Park Date/Time: 1/20/11 08:28 Received: [Signature] Date/Time: 1/20/11 5:25

Reinquired: [Signature] Date/Time: 1/20/11 08:28 Received: [Signature] Date/Time: 1/20/11 5:25

Sample Receipt: 1 Cooler Temperature: 2.9 Seals Intact?: N/A Total Number of Containers: 13

Special Remarks: TAT -> 24HR. 49HR Standard

## Appendix B Test Pit Logs

**Former Toilet**

Depth (ft)	USCS Soil Type <sup>(1)</sup>	Soil Description	Sheen <sup>(2)</sup>	PID <sup>(3)</sup>	Analytes Sampled
0.0 – 1.0	OL	Topsoil, dark brown/sparse roots			
1.0 – 3.0	SM	Tan fine silty sand  <10% cobbles (<1" – 10" diameter)	None Observed	0.0	HCID, Metals Sample ID# T-1-2

**Former Oil House 1**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.25*	SW	Silty, coarse to fine sand	None Observed	0.0	HCID Sample ID# OH1-1-0.3

\*Pit was located near roadway and overhead power lines, as a result the surface was sampled after a shallow scrape.

**Former Oil House 2**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.1	OL	Topsoil, dark brown/sparse roots			
0.1 – 3.0	SM/SW	Fine to medium sandy silt to silty fine to medium sand  ~30% cobbles (<1" – 8" diameter)	None Observed	0.0	HCID Sample ID# OH2-1-2

**Former Fuel Vault (East Pit)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.1	OL	Topsoil, dark brown/sparse roots			
0.1 – 3.0	SW	Silty, fine sand  <10% cobbles (<1" – 4" diameter)	None Observed	0.0	

**Former Fuel Vault (Central Pit)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.5	OL	Topsoil, dark brown/sparse roots			
0.5 – 3.0	SW	Silty, medium sand  10 – 20% cobbles (<1" – 8" diameter)	None Observed	0.0	HCID Sample ID# FV-C-1-2

**Former Fuel Vault (West Pit)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.25	OL	Topsoil, dark brown/sparse roots			
0.25 – 3.0	SW	Silty, coarse to fine sand  <10% cobbles (<1" – 8" diameter)	None Observed	0.0	

**Former Machine Shop (North Pit)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 2.5	SP	Fine to medium sand  ~30% cobbles (<1" – 8" diameter)	None Observed	0.0	

**Former Machine Shop (Central Pit)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.25	OL	Topsoil, dark brown/sparse roots			
0.25 – 2.5	SP/SM	Fine sand to silty fine sand  ~30% cobbles (<1" – 8" diameter)	None Observed	0.0	HCID, Metals, VOCs Sample ID# MS-C-1-2

**Former Machine Shop (South Pit)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 2.5	SM	Silty fine sand  10% cobbles (<1" – 5" diameter)	None Observed	0.0	

**Former Repair Shed (North)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.5	OL	Topsoil, dark brown/sparse roots			
0.5 – 4.0	SW	Silty, coarse to fine sand  ~30% cobbles (<1" – 8" diameter)	None Observed	0.0	

**Former Repair Shed (Central)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.5	OL	Topsoil, dark brown/sparse roots			
0.5 – 4.0	SW	Silty, coarse to fine sand  ~30% cobbles (<1" – 8" diameter)	None Observed	0.0	HCID, Metals, VOCs Sample ID# RS-C-1-2

\* Two old electric cables (~3 ft. long each) unearthed at 6" and 12" depth within this test pit.

**Former Repair Shed (South)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.5	OL	Topsoil, dark brown/sparse roots			
0.5 – 4.0	SW	Silty, coarse to fine sand ~30% cobbles (<1" – 8" diameter)	None Observed	0.0	

\*Charred timber (~2ft long) wrapped in cable unearthed within this test pit

**Transformer**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.25*	SW	Silty, coarse to fine sand	None Observed	0.0	PCBs Sample ID# Trans1-1-S

\*Pit was located near roadway and overhead power lines, as a result the surface was sampled after a shallow scrape. Excavation exposed the surface of a PVC sewer pipe.

**Former Power House (East Pit)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.1	OL	Topsoil, dark brown/sparse roots			
0.1 – 0.5	---	Dense black ash	None Observed	0.0	
0.5 – 4.0	SW	Silty, coarse to medium sand ~30% cobbles (<1" – 12" diameter)	None Observed	0.0	

**Former Power House (West Pit)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 0.5	---	Dense black ash	None Observed	0.0	HCID, Metals Sample ID# PH-W-1-0-S
0.5 – 4.0	SW	Silty, coarse to fine sand 10 – 30% cobbles (<1" – >12" diameter)	None Observed	0.0	HCID, Metals Sample ID# PH-W-2-2

**Outside Former Power House (1)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 1.0	SW	Silty, coarse to fine sand ~ 30% cobbles (<1" – 4" diameter)	None Observed		

**Outside Former Power House (2)**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 1.3	SW	Silty, coarse to fine sand ~30% cobbles (<1" – 4" diameter)	None		

**Former Planning Mill West**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 1.0	OL	Topsoil, dark brown/dense roots No cobbles	None observed	0.0	

**Former Planning Mill East**

Depth (ft)	USCS Soil Type	Soil Description	Sheen	PID	Analytes Sampled
0.0 – 1.0	OL	Topsoil, dark brown/dense roots	None observed	0.0	
1.0 – 1.5	SW	Silty, coarse to fine sand	observed		

\*some concrete rubble in area ~ 5 -10 inch diameter

<sup>(1)</sup>Unified Soil Classification System; a standard soil classification system used in engineering and geology to describe the texture and grain size of a soil. See the following table for description of soil types.

<sup>(2)</sup> The sheen test procedures involved taking a 9 inch plate of water (approximately 0.5 inches deep) and placing a small quantity of soil (approximately 1 cubic centimeter) in the water and noting, describing sheen (if any) that developed on the water surface.

<sup>(3)</sup> The PID test procedures involved taking a soil sample, placing it in sealed jar (8 oz. jar ½ full of soil), heating the jar in a car (with heater running for approximately 5 to 10 minutes) and then taking a headspace reading from the jar with a PID (the highest PID reading, if any, is recorded).

## Unified Soil Classification System

Major Divisions			Group Symbol	Typical Names	Laboratory Criteria		
					Fine %	Grading	Plasticity
<b>Coarse-Grained Soils</b>  More than 50% retained on the 0.075 mm (No. 200) sieve	<b>Gravels</b>  50% or more of coarse fraction retained on the 4.75 mm (No. 4) sieve	Clean Gravels	GW	Well-graded gravels and gravel-sand mixtures, little or no fines	0-5	$C_u > 4$	
			GP	Poorly graded gravels and gravel-sand mixtures, little or no fines	0-5	Not satisfying GW requirements	
		Gravels With Fines	GM	Silty gravels, gravel-sand-silt mixtures	>12		Below A-line or $I_p < 4$
			GC	Clayey gravels, gravel-sand-clay mixtures	>12		Above A-line or $I_p > 7$
	<b>Sands</b>  50% or more of coarse fraction passes the 4.75 mm (No. 4) sieve	Clean Sands	SW	Well-graded sands and gravelly sands, little or no fines	0-5	$C_u > 6$	
			SP	Poorly graded sands and gravelly sands, little or no fines	0-5	Not satisfying SW requirements	
		Sands With Fines	SM	Silty sands, sand-silt mixtures	>12		Below A-line or $I_p < 4$
			SC	Clayey sands, sand-clay mixtures	>12		Above A-line or $I_p > 7$
<b>Fine-Grained Soils</b>  More than 50% passes the 0.075 mm (No. 200) sieve	<b>Silts and Clays</b>  Liquid Limit 50% or less		ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	Use plasticity chart		
			CL	Inorganic clays of low to medium plasticity, gravelly/sandy/silty/lean clays	Use plasticity chart		
			OL	Organic silts and organic silty clays of low plasticity	Use plasticity chart		
	<b>Silts and Clays</b>  Liquid Limit greater than 50%		MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts	Use plasticity chart		
			CH	Inorganic clays or high plasticity, fat clays	Use plasticity chart		
			OH	Organic clays of medium to high plasticity	Use plasticity chart		
<b>Highly Organic Soils</b>			Pt	Peat, muck, and other highly organic soils			

Class	Gravel	Sands					Silts				Clay		
		Very coarse	Coarse	Medium	Fine	Very Fine	Coarse	Medium	Fine	Very Fine			
Sieve #	>10	18	35	60	120	230							
Size mm	2	2 - 1	1 - 0.5	0.6 - 0.25	0.25 - 0.12	0.12 - 0.062	.062 - .031	0.031 - .016	0.016 - .008	0.008 - .004	.004 - .002	.002 - .001	< .001

## Appendix C Soil Boring Logs

# GEOLOGIC BORING LOG

PROJECT: EATONVILLE, Phase II	JOB NO.: K0159000	SHEET 1	BORING NO.: 1
PROJECT LOCATION: EATONVILLE	BORING LOCATION: GP-1	of 1	TOTAL DEPTH: 17'
DRILL CONTRACTOR: ES IV	GEOLOGIST: Kby	BEGUN: 08:40	date: 1-19-11
DRILL RIG: 32157	DRILLER: Marty	FINISHED: 09:22	
HOLE SIZE: 2"	WEATHER: Sunny	GROUND ELEV.: 804 ft	
DRILLING METHOD: Push	DRILLING FLUID/SOURCE: N/A	GROUND WATER (DEPTH/ELEV.): Approx. 1 ft bgs	
SAMPLER TYPE: MACRO-CORE SAMPLER, 4' liners		TOP OF ROCK (DEPTH/ELEV.):	
SAMPLER LENGTH AND DIAM.: 4', 2"		HAMMER WEIGHT:	
		HAMMER FALL:	

DEPTH, FT	SAMPLE TYPE/DEPTH/NUMBER	BLOW COUNT PER 6 IN.	PERCENT RECOVERY	NOTES: (PRODUCT, ODOR, OVA READING, ETC.)	USCS LOG	STRATIGRAPHIC DESCRIPTION
			90%		< 11'	OH - org. clay
4					1'-4'	CL - clay
5-			80%		4'-6'	CL
					6'-7'	GC - clayey gravel
8					7'-8'	SC - clayey sand w/ gravel
10-			95%		8'-9.5'	GM
					9.5'-11'	GC
12					11'-12'	GP
14			90%		12'-14'	GC
15-	screen				14'-16'	GP
17-	water sample					
20-	GP-1-17-1-19-11					
	time: 09:48					
25-						

GP-1 location:  
 N 46° 51.773'  
 W 122° 15.709'  
 Elev. 804 ft

SAMPLE TYPES  
 SS=SPLIT SPOON, ST=SHELBY TUBE  
 R= ROCK CORE, O=OTHER

# GEOLOGIC BORING LOG

PROJECT: Eatonville, Phase #	JOB NO.: K059000	SHEET 1	BORING NO.: 2
PROJECT LOCATION: EATONVILLE	BORING LOCATION: GP-2	of 1	TOTAL DEPTH: 17
DRILL CONTRACTOR: ESN	GEOLOGIST: EM	BEGUN: 10-11 051-19-11	
DRILL RIG: BR187	DRILLER: Mark	FINISHED: 10:40	
HOLE SIZE: 2"	WEATHER: Sunny	GROUND ELEV.: 805 ft	
DRILLING METHOD: 7-1/2"	DRILLING FLUID/SOURCE: N/A	GROUND WATER (DEPTH/ELEV.): Approx. 17ft bgs	
SAMPLER TYPE: MACRO-CORE SAMPLER 14' liners		TOP OF ROCK (DEPTH/ELEV.):	
SAMPLER LENGTH AND DIAM.: 4', 2"		HAMMER WEIGHT:	
		HAMMER FALL:	

DEPTH, FT	SAMPLE TYPE//DEPTH/NUMBER	BLOW COUNT PER 6 IN.	PERCENT RECOVERY	NOTES: (PRODUCT, ODOR, OVA READING, ETC.)	USCS LOG	STRATIGRAPHIC DESCRIPTION
5-			50%		0-0.5 0.5-1' 1'-2.5' 2.5-4'	CL rock CL-gravelly CL-gravelly
8-			50%		4' - 8	CL-gravelly
10-			100%		8'-9.5' 9.5-10.5' 10.5-12'	GC-clayey gravels rock -GC - rock
15-			50%	soil shear test from 16' -colorless sheen (CS) -sped is irregular	12-12.5' 12.5-13.5' 13.5-16'	GC rock GM
17'- 20-- 25--	GW sample GP-2-17 -1-19-11 time: 11:00			sheen observed on purge water sheen - light green/red -most of water surface is covered w/ sheen		

## GP-2 LOCATION

N 46° 51.780'  
W 122° 15.703'  
Elev. 805 ft

SAMPLE TYPES  
SS=SPLIT SPOON, ST=SHELBY TUBE  
R= ROCK CORE, O=OTHER

# GEOLOGIC BORING LOG

PROJECT: EATONVILLE, PULASKI II	JOB NO.: E0159 000	SHEET 1	BORING NO.: 3
PROJECT LOCATION: EATONVILLE	BORING LOCATION: GP-3	of 1	TOTAL DEPTH: 13
DRILL CONTRACTOR: ESN	GEOLOGIST: ESN	BEGUN: 11:35	1-19-11
DRILL RIG: BRIET	DRILLER: Marky	FINISHED: 11:50	
HOLE SIZE: 2"	WEATHER: sunny	GROUND ELEV.: 772 ft	
DRILLING METHOD: Puck	DRILLING FLUID/SOURCE: N/A	GROUND WATER (DEPTH/ELEV.): Approx. 8 ft bgs	
SAMPLER TYPE: MACRO-CORE SAMPLER, 4" liner		TOP OF ROCK (DEPTH/ELEV.):	
SAMPLER LENGTH AND DIAM.: 4', 2"		HAMMER WEIGHT:	
		HAMMER FALL:	

DEPTH, FT	SAMPLE TYPE/DEPTH/NUMBER	BLOW COUNT PER 6 IN.	PERCENT RECOVERY	NOTES: (PRODUCT, ODOR, OVA READING, ETC.)	USCS LOG	STRATIGRAPHIC DESCRIPTION
4'			65%		CL 2-3 3-4'	CH ML ML w/rocks
5--			40%		4-8	SC w/rocks
8'					8-9 9-12	rock GC
12'	13' - GW sample 15 - GP-3-13-1-19-11 time: 12:07		60%	colorless sheen on purge water (maybe residual iron brought from GP-2)	soil sheen (12) screening - negative	
20--						
25--						

GP 3 location  
 N 46° 51.787'  
 W 122° 15.715'  
 elev. 772 ft corr. bgs

SAMPLE TYPES  
 SS=SPLIT SPOON, ST=SHELBY TUBE  
 R= ROCK CORE, O=OTHER

# GEOLOGIC BORING LOG

PROJECT: EATONVILLE PHASE II	JOB NO.: E0159000	SHEET 1	BORING NO.: 4-1
PROJECT LOCATION: Eatonville	BORING LOCATION: GP-4	of 1	TOTAL DEPTH: 19
DRILL CONTRACTOR: ESN	GEOLOGIST: Kay	BEGUN: 12:33	1-19-11
DRILL RIG: BRT 87	DRILLER: Harry	FINISHED: 13:23	
HOLE SIZE: 24	WEATHER: cloudy/sunny	GROUND ELEV.: 849 ft	
DRILLING METHOD: push	DRILLING FLUID/SOURCE: N/A	GROUND WATER (DEPTH/ELEV.): Approx. 9 ft bgs	
SAMPLER TYPE: Micro core sampler, 4' liners		TOP OF ROCK (DEPTH/ELEV.):	
SAMPLER LENGTH AND DIAM.: 4', 2"		HAMMER WEIGHT:	
		HAMMER FALL:	

DEPTH, FT	SAMPLE TYPE/DEPTH/NUMBER	BLOW COUNT PER 6 IN.	PERCENT RECOVERY	NOTES: (PRODUCT, ODOR, OVA READING, ETC.)	USCS LOG	STRATIGRAPHIC DESCRIPTION
			30%		Co-S 4	0 ft SC w/ gravels
5 -			75%		4-5 5-8	SC w/ gravels GP - poorly graded gravels
10 -			65%	hard drilling	8-9 9-12	GP SC - clayey sand w/ gravel/rock
15 -			50%		12 15 16	SM w/ gravels rock layer SM w/ gravels
19 - 20 -	GW sample GP-4-19-1-19-11 time: 13:55					
25 -						

GP-4 location:  
 N 46° 51.766'  
 W 122° 15.673'  
 Elev. 849 ft

SAMPLE TYPES  
 SS=SPLIT SPOON, ST=SHELBY TUBE  
 R= ROCK CORE, O=OTHER

NOTE: had to wait for water to develop @ 19'  
 slow purging

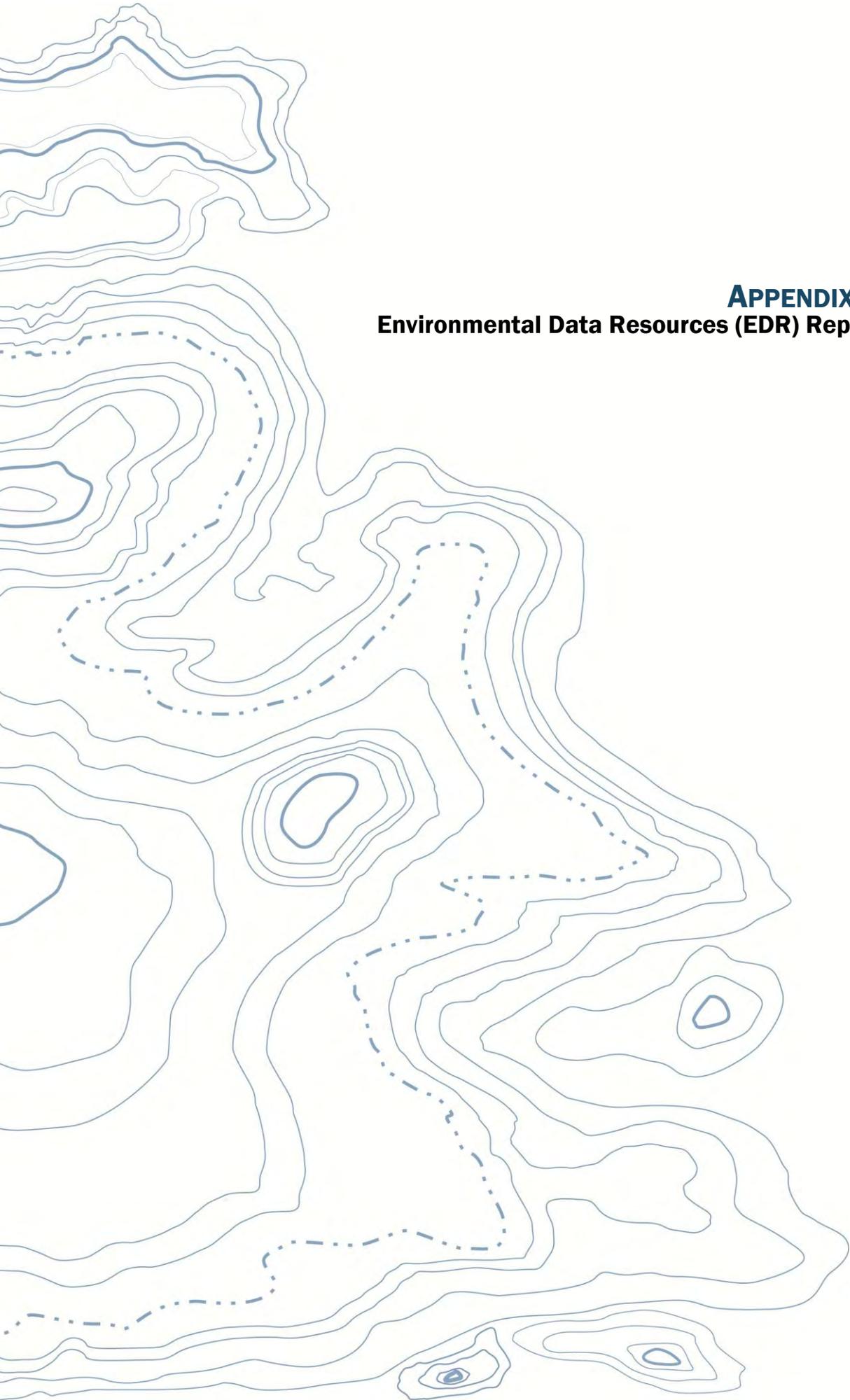
# GEOLOGIC BORING LOG

PROJECT: EATONVILLE PHASE II		JOB NO.: K0159000	SHEET 1	BORING NO.: 5-1
PROJECT LOCATION: EATONVILLE		BORING LOCATION: GP-5	of 1	TOTAL DEPTH: 17
DRILL CONTRACTOR: ESN		GEOLOGIST: ESN	BEGUN: 14:43	1-19-11
DRILL RIG: BR187		DRILLER: Terry	FINISHED: 15:04	
HOLE SIZE: 2 1/2		WEATHER: sunny/cloudy	GROUND ELEV.: 798 ft	
DRILLING METHOD: push		DRILLING FLUID/SOURCE: N/A	GROUND WATER (DEPTH/ELEV.): Approx. 17 ft bgs	
SAMPLER TYPE: Macro-core sampler, 4' liners		TOP OF ROCK (DEPTH/ELEV.):		
SAMPLER LENGTH AND DIAM.: 4', 2"		HAMMER WEIGHT:		
		HAMMER FALL:		

DEPTH, FT	SAMPLE TYPE/DEPTH/NUMBER	BLOW COUNT PER 6 IN.	PERCENT RECOVERY	NOTES: (PRODUCT, ODOR, OVA READING, ETC.)	USCS LOG	STRATIGRAPHIC DESCRIPTION
4'			50%		< 1 1-2 2-2.5 2.5-4	OH likely ASH BRICK (Red) likely ASH, gravel at 4'
5--			40%		4-7 7-8	SM + gravel GP
8'			50%		8-8.5 8.5-12	GM GP
12'			50%	soil sheen test - negative	12-16	GM
6	17' - sample 20-- GP-5-17- file: 15:30	1-19-11				
25--						

GP-5 location:  
 N 46° 51.717'  
 W 122° 15.845'  
 Elev. 798 ft

SAMPLE TYPES  
 SS=SPLIT SPOON, ST=SHELBY TUBE  
 R= ROCK CORE, O=OTHER



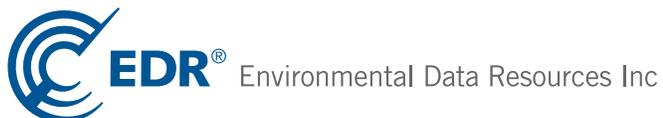
**APPENDIX D**  
**Environmental Data Resources (EDR) Report**

**Hamilton Properties**

Near 433 Center Street East  
Eatonville, WA 98328

Inquiry Number: 3456491.2s  
November 15, 2012

# The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

NEAR 433 CENTER STREET EAST  
EATONVILLE, WA 98328

#### COORDINATES

Latitude (North): 46.8605000 - 46° 51' 37.80"  
Longitude (West): 122.2591000 - 122° 15' 32.76"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 556475.4  
UTM Y (Meters): 5189710.0  
Elevation: 798 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 46122-G3 EATONVILLE, WA  
Most Recent Revision: 1990  
  
East Map: 46122-G2 ELBE, WA  
Most Recent Revision: 1993

### AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2009  
Source: USDA

### 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

#### *Federal NPL site list*

NPL..... National Priority List

## EXECUTIVE SUMMARY

Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

### ***Federal CERCLIS list***

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System  
FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls  
LUCIS..... Land Use Control Information System

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State and tribal leaking storage tank lists***

LUST..... Leaking Underground Storage Tanks Site List  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

UST..... Underground Storage Tank Database  
AST..... Aboveground Storage Tank Locations  
INDIAN UST..... Underground Storage Tanks on Indian Land  
FEMA UST..... Underground Storage Tank Listing

### ***State and tribal institutional control / engineering control registries***

INST CONTROL..... Institutional Control Site List

## EXECUTIVE SUMMARY

### ***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing  
VCP..... Voluntary Cleanup Program Sites  
ICR..... Independent Cleanup Reports

### ***State and tribal Brownfields 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***

ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
SWRCY..... Recycling Facility List  
SWTIRE..... Solid Waste Tire Facilities  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US CDL..... Clandestine Drug Labs  
CSCSL NFA..... Confirmed & Contaminated Sites - No Further Action  
CDL..... Clandestine Drug Lab Contaminated Site List  
HIST CDL..... List of Sites Contaminated by Clandestine Drug Labs  
US HIST 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

#### ***Other Ascertainable Records***

RCRA-NonGen..... RCRA - Non Generators  
DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
MINES..... Mines Master Index File  
TRIS..... Toxic Chemical Release Inventory System  
TSCA..... Toxic Substances Control Act

## EXECUTIVE SUMMARY

FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Listing
MANIFEST.....	Hazardous Waste Manifest Data
DRYCLEANERS.....	Drycleaner List
NPDES.....	Water Quality Permit System Data
AIRS.....	Washington Emissions Data System
Inactive Drycleaners.....	Inactive Drycleaners
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
PRP.....	Potentially Responsible Parties
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing
COAL ASH.....	Coal Ash Disposal Site Listing
EPA WATCH LIST.....	EPA WATCH LIST
US FIN ASSUR.....	Financial Assurance Information
PCB TRANSFORMER.....	PCB Transformer Registration Database
2020 COR ACTION.....	2020 Corrective Action Program List
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List

### EDR PROPRIETARY RECORDS

#### ***EDR Proprietary Records***

Manufactured Gas Plants.....	EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations.....	EDR Proprietary Historic Gas Stations
EDR Historical Cleaners.....	EDR Proprietary Historic Dry Cleaners

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

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

## EXECUTIVE SUMMARY

### STANDARD ENVIRONMENTAL RECORDS

#### ***State- and tribal - equivalent NPL***

HSL: 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).

A review of the HSL list, as provided by EDR, and dated 08/23/2012 has revealed that there is 1 HSL site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ASSOCIATED PETROLEUM PRO EATON</b> Facility Type: Hazardous Sites List	<b>117 WASHINGTON AVE</b>	<b>NW 1/4 - 1/2 (0.442 mi.)</b>	<b>6</b>	<b>17</b>

#### ***State- and tribal - equivalent CERCLIS***

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 07/23/2012 has revealed that there are 4 CSCSL sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>ASSOCIATED PETROLEUM PRO EATON</b>	<b>117 WASHINGTON AVE</b>	<b>NW 1/4 - 1/2 (0.442 mi.)</b>	<b>6</b>	<b>17</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HAMILTON CENTERPOINT</b>	<b>351 MADISON AVE S</b>	<b>NW 1/4 - 1/2 (0.295 mi.)</b>	<b>1</b>	<b>7</b>
<b>ELWYN R RAHIER</b>	<b>100 WASH AVE N</b>	<b>NW 1/2 - 1 (0.536 mi.)</b>	<b>7</b>	<b>23</b>
<b>VENTURE BANK</b>	<b>121 WASHINGTON AVE</b>	<b>NNW 1/2 - 1 (0.562 mi.)</b>	<b>8</b>	<b>27</b>

#### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Ecology's Solid Waste Facilities Handbook.

A review of the SWF/LF list, as provided by EDR, and dated 09/06/2012 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>EATONVILLE POWER &amp; LIGHT</b>	<b>402 MASHELL AVE</b>	<b>WNW 1/4 - 1/2 (0.379 mi.)</b>	<b>A3</b>	<b>8</b>

## EXECUTIVE SUMMARY

### 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 08/06/2012 has revealed that there are 6 ALLSITES sites within approximately 0.5 miles of the target property.

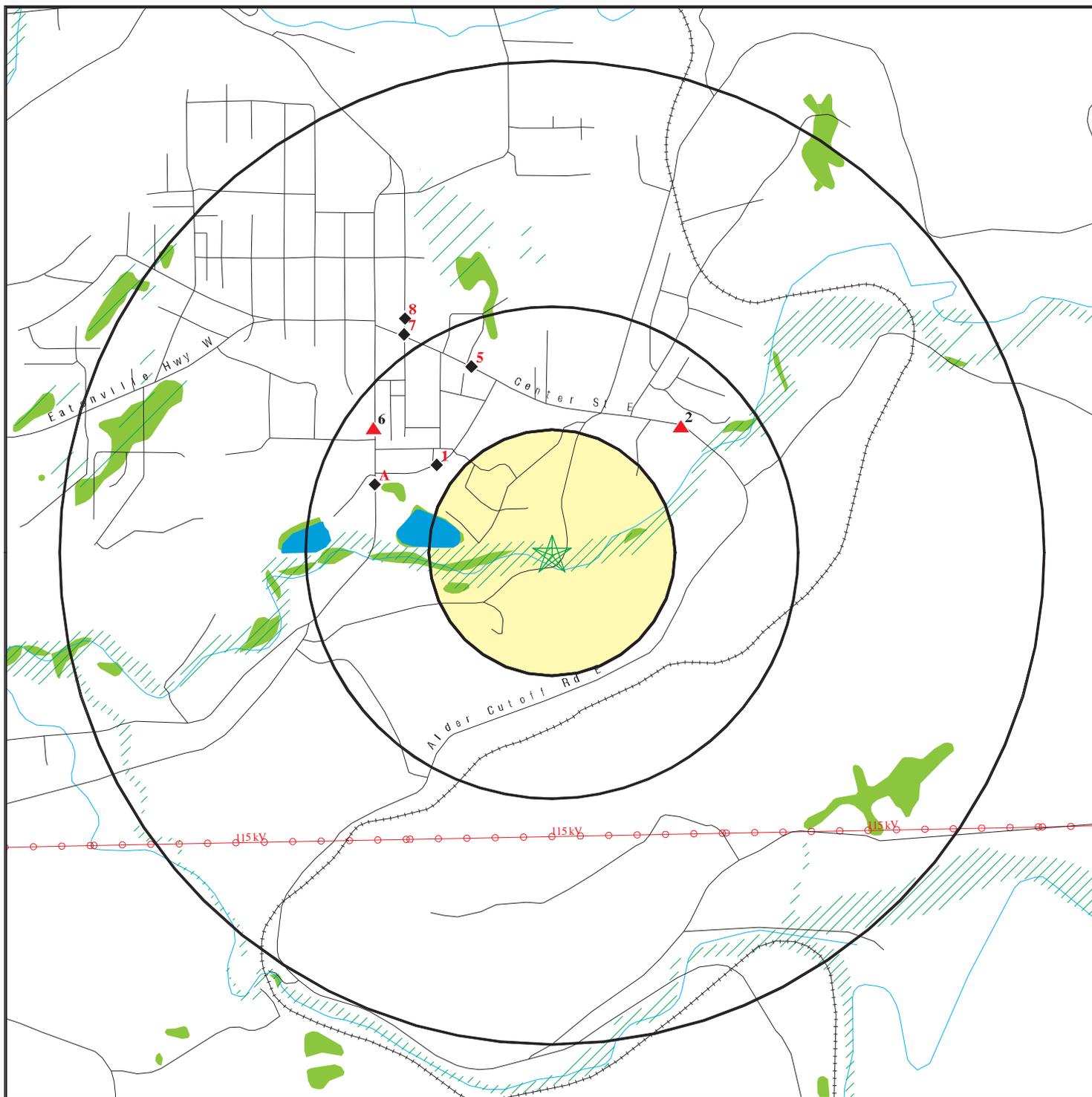
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>NYBO REDI-MIX CONCRETE</i>	<i>675 CENTER ST E</i>	<i>NE 1/4 - 1/2 (0.367 mi.)</i>	<i>2</i>	<i>7</i>
<i>ASSOCIATED PETROLEUM PRO EATON</i>	<i>117 WASHINGTON AVE</i>	<i>NW 1/4 - 1/2 (0.442 mi.)</i>	<i>6</i>	<i>17</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HAMILTON CENTERPOINT</i>	<i>351 MADISON AVE S</i>	<i>NW 1/4 - 1/2 (0.295 mi.)</i>	<i>1</i>	<i>7</i>
<i>EATONVILLE POWER &amp; LIGHT</i>	<i>402 MASHELL AVE</i>	<i>WNW 1/4 - 1/2 (0.379 mi.)</i>	<i>A3</i>	<i>8</i>
<i>EATONVILLE STP</i>	<i>370 MASHEL AVE S</i>	<i>WNW 1/4 - 1/2 (0.386 mi.)</i>	<i>A4</i>	<i>11</i>
<i>MILL TOWN GROCERY</i>	<i>360 CENTER ST E</i>	<i>NNW 1/4 - 1/2 (0.412 mi.)</i>	<i>5</i>	<i>16</i>

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

<u>Site Name</u>	<u>Database(s)</u>
BONNIE LAKE COLLECTION EVENT	SWF/LF
BARRY EXCAVATING LANDFILL	SWF/LF
MCNEIL ISLAND WWTP	SWF/LF
AMERICAN TOPSOILS	SWF/LF
ROBERT E. BOSTER DUMP	SWF/LF
WA DOT ALDER	RCRA-NonGen, FINDS
OLD EATONVILLE DUMP	ODI

# OVERVIEW MAP - 3456491.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

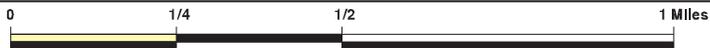
— Power transmission lines

— Oil & Gas pipelines from USGS

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

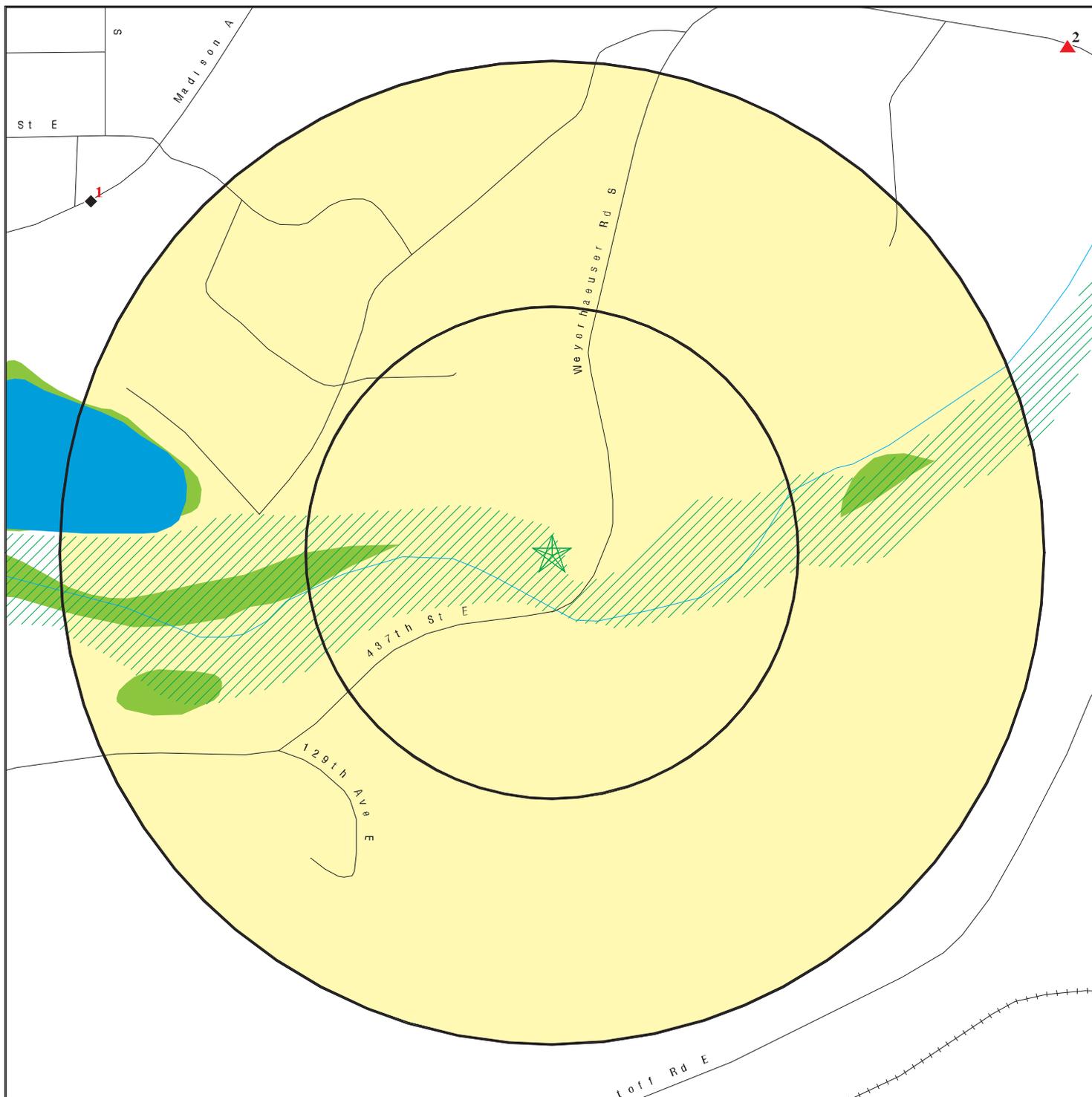


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Hamilton Properties  
 ADDRESS: Near 433 Center Street East  
 Eatonville WA 98328  
 LAT/LONG: 46.8605 / 122.2591

CLIENT: Geo Engineers, Inc.  
 CONTACT: Jessica Robertson  
 INQUIRY #: 3456491.2s  
 DATE: November 15, 2012 2:38 pm

# DETAIL MAP - 3456491.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites

- 0 1/16 1/8 1/4 Miles
- ☒ Indian Reservations BIA
- ▲ Oil & Gas pipelines from USGS
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

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 Eatonville WA 98328  
 LAT/LONG: 46.8605 / 122.2591

CLIENT: Geo Engineers, Inc.  
 CONTACT: Jessica Robertson  
 INQUIRY #: 3456491.2s  
 DATE: November 15, 2012 2:38 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
HSL	1.000		0	0	1	0	NR	1
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
CSCSL	1.000		0	0	2	2	NR	4
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	0	1	NR	NR	1
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
INST CONTROL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
ICR	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES	0.500		0	0	6	NR	NR	6
CSCSL NFA	0.500		0	0	0	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
HIST CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA-NonGen	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
Inactive Drycleaners	0.250		0	0	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants	1.000		0	0	0	0	NR	0
EDR Historical Auto Stations	0.250		0	0	NR	NR	NR	0
EDR Historical Cleaners	0.250		0	0	NR	NR	NR	0

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

---

<b>1</b>	<b>HAMILTON CENTERPOINT</b>	<b>CSCSL</b>	<b>S110700577</b>
<b>NW</b>	<b>351 MADISON AVE S</b>	<b>ALLSITES</b>	<b>N/A</b>
<b>1/4-1/2</b>	<b>EATONVILLE, WA 98328</b>		
<b>0.295 mi.</b>			
<b>1555 ft.</b>			

<b>Relative:</b>	<b>CSCSL:</b>		
<b>Lower</b>	Facility ID:	20314	
	Region:	Southwest	
<b>Actual:</b>	Lat/Long:	46.863826188565 / -122.2627490489	
<b>790 ft.</b>	Brownfield Status:	Not reported	
	Rank Status:	Not reported	
	Clean Up Siteid:	11444	
	Site Status:	Awaiting Cleanup	
	PSI?:	Not reported	
	Contaminant Name:	Petroleum-Diesel	
	Ground Water:	Not reported	
	Surface Water:	Not reported	
	Soil:	C	
	Sediment:	Not reported	
	Air:	Not reported	
	Bedrock:	Not reported	
	Responsible Unit:	Southwest	

<b>ALLSITES:</b>			
Facility Id:	20314		
Latitude:	46.8638261		
Longitude:	-122.26274		
Ecology Interest Type Code:	LUST		
Facility ID:	20314		
Facility Company:	Hamilton Centerpoint		
Interaction:	A		
Interaction 1:	LUST		
Interaction 2:	LUST Facility		
Ecology Program:	TOXICS		
Program Data:	ISIS		
Facility Alt.:	Hamilton Centerpoint		
Program ID:	Not reported		
Date Interaction:	12/02/2010		
Date Interaction 3:	12/02/2010		
ESRI OID:	16916		

<b>2</b>	<b>NYBO REDI-MIX CONCRETE</b>	<b>ALLSITES</b>	<b>S110035990</b>
<b>NE</b>	<b>675 CENTER ST E</b>	<b>NPDES</b>	<b>N/A</b>
<b>1/4-1/2</b>	<b>EATONVILLE, WA</b>		
<b>0.367 mi.</b>			
<b>1939 ft.</b>			

<b>Relative:</b>	<b>ALLSITES:</b>		
<b>Higher</b>	Facility Id:	1575	
	Latitude:	46.8664181	
<b>Actual:</b>	Longitude:	-122.25676	
<b>840 ft.</b>	Ecology Interest Type Code:	SANDGP	
	Facility ID:	1575	
	Facility Company:	JERRY NYBO CONSTRUCTION EATONVILLE	
	Interaction:	A	
	Interaction 1:	SANDGP	
	Interaction 2:	Sand and Gravel GP	

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NYBO REDI-MIX CONCRETE (Continued)**

**S110035990**

Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	NYBO REDI-MIX CONCRETE
Program ID:	WAG501516
Date Interation:	08/29/2007
Date Interation 3:	08/29/2007
ESRI OID:	3619
Facility/Site Interaction T:	86504
Geographic Location Identifier (Alias Facid):	1575
Interaction (Aka Env Int) Type Code:	SANDGP
Interaction (Aka Env Int) Description:	Sand and Gravel GP
Interaction Status:	A
Federal Program Identifier:	WAG501516
Interaction Start Date:	08/29/2007
Interaction End Date:	Not reported
prgm_facil:	JERRY NYBO CONSTRUCTION EATONVILLE
cur_sys_pr:	WATQUAL
cur_sys_nm:	PARIS

**NPDES:**

Facility Status:	Inactive
Facility Type:	Sand and Gravel GP
Admin Region:	Southwest
Date Issued:	08/04/2010
Latitude:	46.86641817
Longitude:	-122.256764
Permit ID:	WAG501516
Permit Version:	2
Permit Status:	Active
Permit SubStatus:	Coverage Issued
Ecology Contact:	Chris Johnson
WRIA:	Nisqually
Permit Expiration Date:	10/01/2015
Effective Date:	10/01/2010

**A3**  
**WNW**  
 1/4-1/2  
 0.379 mi.  
 2002 ft.

**EATONVILLE POWER & LIGHT**  
**402 MASHHELL AVE**  
**EATONVILLE, WA 98328**  
 Site 1 of 2 in cluster A

**RCRA-NonGen** 1000339766  
**FINDS** WAD981763642  
**ALLSITES**  
**SWF/LF**

**Relative:**  
**Lower**

RCRA-NonGen:  
 Date form received by agency: 07/13/2004  
 Facility name: EATONVILLE POWER & LIGHT  
 Facility address: 402 MASHHELL AVE  
 EATONVILLE, WA 98328  
 EPA ID: WAD981763642  
 Mailing address: PO BOX 309  
 EATONVILLE, WA 98328-0309  
 Contact: EATONVILLE POWE EATONVILLE POWE  
 Contact address: PO BOX 309  
 EATONVILLE, WA 98328-0309  
 Contact country: US  
 Contact telephone: (000)000-0000  
 Contact email: Not reported

**Actual:**  
**779 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EATONVILLE POWER & LIGHT (Continued)**

**1000339766**

EPA Region: 10  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: STANLEY D  
Owner/operator address: PO BOX 309  
EATONVILLE, WA 98328  
Owner/operator country: US  
Owner/operator telephone: (360)832-3244  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 07/25/1996  
Owner/Op end date: Not reported

Owner/operator name: EATONVILLE TOWN E  
Owner/operator address: PO BOX 309  
EATONVILLE, WA 98328  
Owner/operator country: US  
Owner/operator telephone: (360)832-3361  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 07/25/1996  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 12/31/2003  
Facility name: EATONVILLE POWER & LIGHT  
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110005340942

Environmental Interest/Information System

Washington Facility / Site Identification System (WA-FSIS) provides a means to query and display data maintained by the Washington

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EATONVILLE POWER & LIGHT (Continued)**

**1000339766**

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.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**HAZARDOUS WASTE BIENNIAL REPORTER**

**ALLSITES:**

Facility Id:	88671249
Latitude:	46.8695200
Longitude:	-122.26844
Ecology Interest Type Code:	HWG
Facility ID:	88671249
Facility Company:	Eatonville Power & Light
Interaction:	I
Interaction 1:	HWG
Interaction 2:	Hazardous Waste Generator
Ecology Program:	HAZWASTE
Program Data:	TURBOWASTE
Facility Alt.:	Not reported
Program ID:	WAD981763642
Date Interaction:	01/28/1987
Date Interaction 3:	01/28/1987
ESRI OID:	87507

**SWF/LF:**

Facility ID:	2169
Region:	STATE
Permit Status:	ACTIVE
Date Closed:	Not reported
Contact Organization:	Not reported
Contact Address1:	PO BOX 309
Contact Address2:	Not reported
Contact City:	EATONVILLE
Contact State:	WA
Contact Postal:	98328
Contact EMail:	SMCKASSON@EATONVILLE-WA.GOV
Contact Phone:	253-278-9503
Contact Phone Ext:	Not reported
Permit No:	BA0037231
Phone:	Not reported
Operator Name:	Not reported
Operator Organization:	Not reported
EMail:	SMCKASSON@eatonville-wa.gov
Recycle Survey Code:	Not reported
Ownership:	PUBLIC
Type:	BIOSOLIDS

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**EATONVILLE POWER & LIGHT (Continued)**

**1000339766**

Contact Name: STEVE MCKASSON  
 Contact Title: SUPERINTENDENT  
 Activity1: BIOSOLIDS (308)

**A4**  
**WNW**  
 1/4-1/2  
 0.386 mi.  
 2038 ft.

**EATONVILLE STP**  
**370 MASHSEL AVE S**  
**EATONVILLE, WA 98328**  
 Site 2 of 2 in cluster A

**ALLSITES** **S109553707**  
**NPDES** **N/A**

**Relative:**  
**Lower**

**ALLSITES:**  
 Facility Id: 8081567  
 Latitude: 46.8602074  
 Longitude: -122.26771  
 Ecology Interest Type Code: MUNIIP  
 Facility ID: 8081567  
 Facility Company: EATONVILLE STP  
 Interaction: A  
 Interaction 1: ENFORFNL  
 Interaction 2: Enforcement Final  
 Ecology Program: W2R  
 Program Data: DMS  
 Facility Alt.: Not reported  
 Program ID: Not reported  
 Date Interation: 01/24/2006  
 Date Interation 3: 01/24/2006  
 ESRI OID: 35608

**Actual:**  
**780 ft.**

Facility ID: 8081567  
 Facility Company: EATONVILLE STP  
 Interaction: A  
 Interaction 1: ENFORFNL  
 Interaction 2: Enforcement Final  
 Ecology Program: W2R  
 Program Data: DMS  
 Facility Alt.: Not reported  
 Program ID: Not reported  
 Date Interation: 01/24/2006  
 Date Interation 3: 01/24/2006  
 ESRI OID: 35608

Facility ID: 8081567  
 Facility Company: EATONVILLE STP  
 Interaction: A  
 Interaction 1: ENFORFNL  
 Interaction 2: Enforcement Final  
 Ecology Program: W2R  
 Program Data: DMS  
 Facility Alt.: Not reported  
 Program ID: Not reported  
 Date Interation: 01/24/2006  
 Date Interation 3: 01/24/2006  
 ESRI OID: 35608

Facility ID: 8081567  
 Facility Company: EATONVILLE STP  
 Interaction: A  
 Interaction 1: ENFORFNL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EATONVILLE STP (Continued)**

**S109553707**

Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported  
Date Interaction: 01/24/2006  
Date Interaction 3: 01/24/2006  
ESRI OID: 35608

Facility ID: 8081567  
Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported  
Date Interaction: 01/24/2006  
Date Interaction 3: 01/24/2006  
ESRI OID: 35608

Facility ID: 8081567  
Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported  
Date Interaction: 01/24/2006  
Date Interaction 3: 01/24/2006  
ESRI OID: 35608

Facility ID: 8081567  
Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported  
Date Interaction: 01/24/2006  
Date Interaction 3: 01/24/2006  
ESRI OID: 35608

Facility ID: 8081567  
Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EATONVILLE STP (Continued)**

**S109553707**

Date Interaction:	01/24/2006
Date Interaction 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	W2R
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	01/24/2006
Date Interaction 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	W2R
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	01/24/2006
Date Interaction 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	MUNIIP
Interaction 2:	Municipal NPDES IP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	EATONVILLE STP
Program ID:	WA0037231
Date Interaction:	05/03/1985
Date Interaction 3:	05/03/1985
ESRI OID:	35609
Facility Id:	8081567
Latitude:	46.8602074
Longitude:	-122.26771
Ecology Interest Type Code:	ENFORFNL
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	W2R
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EATONVILLE STP (Continued)**

**S109553707**

Date Interaction:	01/24/2006
Date Interaction 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	W2R
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	01/24/2006
Date Interaction 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	W2R
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	01/24/2006
Date Interaction 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	W2R
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	01/24/2006
Date Interaction 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	ENFORFNL
Interaction 2:	Enforcement Final
Ecology Program:	W2R
Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interaction:	01/24/2006
Date Interaction 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EATONVILLE STP (Continued)**

**S109553707**

Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported  
Date Interation: 01/24/2006  
Date Interation 3: 01/24/2006  
ESRI OID: 35608

Facility ID: 8081567  
Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported  
Date Interation: 01/24/2006  
Date Interation 3: 01/24/2006  
ESRI OID: 35608

Facility ID: 8081567  
Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported  
Date Interation: 01/24/2006  
Date Interation 3: 01/24/2006  
ESRI OID: 35608

Facility ID: 8081567  
Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R  
Program Data: DMS  
Facility Alt.: Not reported  
Program ID: Not reported  
Date Interation: 01/24/2006  
Date Interation 3: 01/24/2006  
ESRI OID: 35608

Facility ID: 8081567  
Facility Company: EATONVILLE STP  
Interaction: A  
Interaction 1: ENFORFNL  
Interaction 2: Enforcement Final  
Ecology Program: W2R

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**EATONVILLE STP (Continued)**

**S109553707**

Program Data:	DMS
Facility Alt.:	Not reported
Program ID:	Not reported
Date Interation:	01/24/2006
Date Interation 3:	01/24/2006
ESRI OID:	35608
Facility ID:	8081567
Facility Company:	EATONVILLE STP
Interaction:	A
Interaction 1:	MUNIIP
Interaction 2:	Municipal NPDES IP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	EATONVILLE STP
Program ID:	WA0037231
Date Interation:	05/03/1985
Date Interation 3:	05/03/1985
ESRI OID:	35609

**NPDES:**

Facility Status:	Active
Facility Type:	Municipal NPDES IP
Admin Region:	Southwest
Date Issued:	04/03/2009
Latitude:	46.86038208
Longitude:	-122.266494
Permit ID:	WA0037231
Permit Version:	4
Permit Status:	Active
Permit SubStatus:	Reauthorized
Ecology Contact:	Chuck Hoffman
WRIA:	Nisqually
Permit Expiration Date:	04/30/2014
Effective Date:	05/01/2009

**5**  
**NNW**  
**1/4-1/2**  
**0.412 mi.**  
**2177 ft.**

**MILL TOWN GROCERY**  
**360 CENTER ST E**  
**EATONVILLE, WA 98328**

**FINDS** **1007075519**  
**ALLSITES** **N/A**  
**FINANCIAL ASSURANCE**

**Relative:**  
**Lower**

**FINDS:**

Registry ID: 110015521675

**Actual:**  
**797 ft.**

**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.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILL TOWN GROCERY (Continued)**

**1007075519**

ALLSITES:

Facility Id: 14773355  
Latitude: 46.866194  
Longitude: -122.26230  
Ecology Interest Type Code: UST  
Facility ID: 14773355  
Facility Company: MILL TOWN GROCERY  
Interaction: A  
Interaction 1: UST  
Interaction 2: Underground Storage Tank  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 100140  
Date Interaction: 10/12/1989  
Date Interaction 3: 10/12/1989  
ESRI OID: 42167

WA FINANCIAL ASSURANCE 1:

edr\_fstat: WA  
edr\_fzip: 98328  
edr\_fcnty: Not reported  
edr\_zip: Not reported  
DOE Site ID: 100140  
Site Type: PLIA  
Financial Resp Type: Colony (GUS)  
Inception Date: 06/07/2011  
Expiration Date: 06/07/2012

**6**  
**NW**  
**1/4-1/2**  
**0.442 mi.**  
**2333 ft.**

**ASSOCIATED PETROLEUM PRO EATONVILLE**  
**117 WASHINGTON AVE**  
**EATONVILLE, WA 98328**

**FINDS** **1007071915**  
**CSCSL** **N/A**  
**ALLSITES**  
**HSL**

**Relative:**  
**Higher**

FINDS:

Registry ID: 110015485358

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.

PCS (Permit Compliance System) 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.

CSCSL:

Facility ID: 36651329

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ASSOCIATED PETROLEUM PRO EATONVILLE (Continued)**

**1007071915**

Region: Southwest  
Lat/Long: 46.864165999999 / -122.266749  
Brownfield Status: Not reported  
Rank Status: 2  
Clean Up Siteid: 4271  
Site Status: Cleanup Started  
PSI?: Not reported  
Contaminant Name: Non-Halogenated Solvents  
Ground Water: C  
Surface Water: Not reported  
Soil: C  
Sediment: Not reported  
Air: Not reported  
Bedrock: Not reported  
Responsible Unit: Southwest

Facility ID: 36651329  
Region: Southwest  
Lat/Long: 46.864165999999 / -122.266749  
Brownfield Status: Not reported  
Rank Status: 2  
Clean Up Siteid: 4271  
Site Status: Cleanup Started  
PSI?: Not reported  
Contaminant Name: Petroleum Products-Unspecified  
Ground Water: C  
Surface Water: Not reported  
Soil: C  
Sediment: Not reported  
Air: Not reported  
Bedrock: Not reported  
Responsible Unit: Southwest

Facility ID: 36651329  
Region: Southwest  
Lat/Long: 46.864165999999 / -122.266749  
Brownfield Status: Not reported  
Rank Status: 2  
Clean Up Siteid: 4271  
Site Status: Cleanup Started  
PSI?: Not reported  
Contaminant Name: Polynuclear Aromatic Hydrocarbons  
Ground Water: S  
Surface Water: Not reported  
Soil: C  
Sediment: Not reported  
Air: Not reported  
Bedrock: Not reported  
Responsible Unit: Southwest

**ALLSITES:**

Facility Id: 36651329  
Latitude: 46.8641659  
Longitude: -122.26674  
Ecology Interest Type Code: VOLCLNST  
Facility ID: 36651329  
Facility Company: ASSOCIATED PETROLEUM PRO EATONVILLE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ASSOCIATED PETROLEUM PRO EATONVILLE (Continued)**

**1007071915**

Interaction:	A
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988511705
Date Interaction:	09/15/2003
Date Interaction 3:	09/15/2003
ESRI OID:	55631
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	I
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	Not reported
Date Interaction:	09/14/1999
Date Interaction 3:	09/14/1999
ESRI OID:	55632
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	SW0943
Date Interaction:	03/25/2008
Date Interaction 3:	03/25/2008
ESRI OID:	55633
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	I
Interaction 1:	INDUSTGP
Interaction 2:	Industrial SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	WAR004245
Date Interaction:	04/03/2001
Date Interaction 3:	04/03/2001
ESRI OID:	55634
Facility Id:	36651329
Latitude:	46.8641659
Longitude:	-122.26674
Ecology Interest Type Code:	INDUSTGP
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ASSOCIATED PETROLEUM PRO EATONVILLE (Continued)**

**1007071915**

Interaction:	A
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988511705
Date Interation:	09/15/2003
Date Interation 3:	09/15/2003
ESRI OID:	55631
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	I
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	Not reported
Date Interation:	09/14/1999
Date Interation 3:	09/14/1999
ESRI OID:	55632
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	SW0943
Date Interation:	03/25/2008
Date Interation 3:	03/25/2008
ESRI OID:	55633
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	I
Interaction 1:	INDUSTGP
Interaction 2:	Industrial SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	WAR004245
Date Interation:	04/03/2001
Date Interation 3:	04/03/2001
ESRI OID:	55634
Facility Id:	36651329
Latitude:	46.8641659
Longitude:	-122.26674
Ecology Interest Type Code:	SCS
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ASSOCIATED PETROLEUM PRO EATONVILLE (Continued)**

**1007071915**

Interaction:	A
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988511705
Date Interation:	09/15/2003
Date Interation 3:	09/15/2003
ESRI OID:	55631
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	I
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	Not reported
Date Interation:	09/14/1999
Date Interation 3:	09/14/1999
ESRI OID:	55632
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	SW0943
Date Interation:	03/25/2008
Date Interation 3:	03/25/2008
ESRI OID:	55633
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	I
Interaction 1:	INDUSTGP
Interaction 2:	Industrial SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	WAR004245
Date Interation:	04/03/2001
Date Interation 3:	04/03/2001
ESRI OID:	55634
Facility Id:	36651329
Latitude:	46.8641659
Longitude:	-122.26674
Ecology Interest Type Code:	TIER2
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ASSOCIATED PETROLEUM PRO EATONVILLE (Continued)**

**1007071915**

Interaction:	A
Interaction 1:	TIER2
Interaction 2:	Emergency/Haz Chem Rpt TIER2
Ecology Program:	HAZWASTE
Program Data:	EPCRA
Facility Alt.:	Not reported
Program ID:	WAD988511705
Date Interaction:	09/15/2003
Date Interaction 3:	09/15/2003
ESRI OID:	55631
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	I
Interaction 1:	SCS
Interaction 2:	State Cleanup Site
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	Not reported
Date Interaction:	09/14/1999
Date Interaction 3:	09/14/1999
ESRI OID:	55632
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	A
Interaction 1:	VOLCLNST
Interaction 2:	Voluntary Cleanup Sites
Ecology Program:	TOXICS
Program Data:	ISIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	SW0943
Date Interaction:	03/25/2008
Date Interaction 3:	03/25/2008
ESRI OID:	55633
Facility ID:	36651329
Facility Company:	ASSOCIATED PETROLEUM PRO EATONVILLE
Interaction:	I
Interaction 1:	INDUSTGP
Interaction 2:	Industrial SW GP
Ecology Program:	WATQUAL
Program Data:	PARIS
Facility Alt.:	ASSOCIATED PETROLEUM PRO EATONVILLE
Program ID:	WAR004245
Date Interaction:	04/03/2001
Date Interaction 3:	04/03/2001
ESRI OID:	55634

HSL:

edr_fstat:	WA
edr_fzip:	Not reported
edr_fcnty:	PIERCE
edr_zip:	Not reported
<b>Facility Type:</b>	<b>Hazardous Sites List</b>

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ASSOCIATED PETROLEUM PRO EATONVILLE (Continued)**

1007071915

Facility Status: Cleanup Started  
FSID Number: 36651329  
Rank: 2  
Region: SW

7  
NW  
1/2-1  
0.536 mi.  
2829 ft.

**ELWYN R RAHIER  
100 WASH AVE N  
EATONVILLE, WA 98328**

**CSCSL U003355076  
ALLSITES N/A  
LUST  
UST**

**Relative:  
Lower**

**CSCSL:**

Facility ID: 12735825  
Region: Southwest  
Lat/Long: 46.86773000000 / -122.26473  
Brownfield Status: Not reported  
Rank Status: Not reported  
Clean Up Siteid: 7955  
Site Status: Awaiting Cleanup  
PSI?: Not reported  
Contaminant Name: Petroleum-Other  
Ground Water: C  
Surface Water: Not reported  
Soil: C  
Sediment: Not reported  
Air: Not reported  
Bedrock: Not reported  
Responsible Unit: Southwest

**Actual:  
797 ft.**

**ALLSITES:**

Facility Id: 12735825  
Latitude: 46.8677300  
Longitude: -122.26473  
Ecology Interest Type Code: UST  
Facility ID: 12735825  
Facility Company: ELWYN R RAHIER  
Interaction: A  
Interaction 1: UST  
Interaction 2: Underground Storage Tank  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 6425  
Date Interation: 03/20/2000  
Date Interation 3: 03/20/2000  
ESRI OID: 40756

Facility ID: 12735825  
Facility Company: ELWYN R RAHIER  
Interaction: A  
Interaction 1: LUST  
Interaction 2: LUST Facility  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: RAHIER CHEVRON  
Program ID: 6425  
Date Interation: 07/09/1993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ELWYN R RAHIER (Continued)**

**U003355076**

Date Iteration 3: 07/09/1993  
ESRI OID: 40757

Facility Id: 12735825  
Latitude: 46.8677300  
Longitude: -122.26473  
Ecology Interest Type Code: LUST

Facility ID: 12735825  
Facility Company: ELWYN R RAHIER  
Interaction: A  
Interaction 1: UST  
Interaction 2: Underground Storage Tank  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 6425  
Date Iteration: 03/20/2000  
Date Iteration 3: 03/20/2000  
ESRI OID: 40756

Facility ID: 12735825  
Facility Company: ELWYN R RAHIER  
Interaction: A  
Interaction 1: LUST  
Interaction 2: LUST Facility  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: RAHIER CHEVRON  
Program ID: 6425  
Date Iteration: 07/09/1993  
Date Iteration 3: 07/09/1993  
ESRI OID: 40757

**LUST:**

Facility ID: 12735825  
Facility Status: Awaiting Cleanup  
Cleanup Site ID: 7955  
Cleanup Unit Type: Upland  
Process Type: Independent Action  
Alternate Name: RAHIER CHEVRON  
Release Status Date: 08/29/2003  
Site Response Unit Code: Southwest  
Lat/Long: 46.8677300 / -122.26473

Facility ID: 12735825  
Facility Status: Cleanup Started  
Cleanup Site ID: 7955  
Cleanup Unit Type: Upland  
Process Type: Independent Action  
Alternate Name: RAHIER CHEVRON  
Release Status Date: 08/13/1990  
Site Response Unit Code: Southwest  
Lat/Long: 46.8677300 / -122.26473

Facility ID: 12735825

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ELWYN R RAHIER (Continued)**

**U003355076**

Facility Status: RCU  
Cleanup Site ID: 7955  
Cleanup Unit Type: Upland  
Process Type: Independent Action  
Alternate Name: RAHIER CHEVRON  
Release Status Date: 09/04/1990  
Site Response Unit Code: Southwest  
Lat/Long: 46.8677300 / -122.26473

Facility ID: 12735825  
Facility Status: Cleanup Started  
Cleanup Site ID: 7955  
Cleanup Unit Type: Upland  
Process Type: Independent Action  
Alternate Name: RAHIER CHEVRON  
Release Status Date: 07/09/1993  
Site Response Unit Code: Southwest  
Lat/Long: 46.8677300 / -122.26473

Facility ID: 12735825  
Facility Status: Monitoring  
Cleanup Site ID: 7955  
Cleanup Unit Type: Upland  
Process Type: Independent Action  
Alternate Name: RAHIER CHEVRON  
Release Status Date: 07/22/1993  
Site Response Unit Code: Southwest  
Lat/Long: 46.8677300 / -122.26473

**UST:**

Facility ID: 12735825  
Site ID: 6425  
Lat Deg: 46  
Lat Min: 52  
Lat Sec: 3.8280000000059999  
Long Deg: -122  
Long Min: 15  
Long Sec: 53.028000000000475  
UBI: Not reported  
Phone Number: 2068323321

Tank ID: 22851  
Tank Name: 2 - U/L  
Install Date: 12/31/1964  
Capacity: Not reported  
Tank Upgrade Date: 01/01/0001  
TankSystem Status: Removed  
TankSystem Status Change Date: 08/26/1996  
Tank Status: Removed  
Tank Permit Expiration Date: 01/01/0001  
Tank Closure Date: 01/01/0001  
Tank Pumping System: Not reported  
Tank Spill Prevention: Not reported  
Tank Overfill Prevention: Not reported  
Tank Material: Steel  
Tank Construction: Not reported  
Tank Tightness Test: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ELWYN R RAHIER (Continued)**

**U003355076**

Tank Corrosion Protection: 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  
Tank Primary Release Detection: Not reported  
Tank Second Release Detection: Not reported  
Pipe Tightness Test: Not reported  
Tank Actual Status Date: 08/06/1996  
Tag Number: Not reported

Tank ID: 25994  
Tank Name: 3 - SUP  
Install Date: 12/31/1964  
Capacity: Not reported  
Tank Upgrade Date: 01/01/0001  
TankSystem Status: Removed  
TankSystem Status Change Date: 08/26/1996  
Tank Status: Removed  
Tank Permit Expiration Date: 01/01/0001  
Tank Closure Date: 01/01/0001  
Tank Pumping System: 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  
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  
Tank Primary Release Detection: Not reported  
Tank Second Release Detection: Not reported  
Pipe Tightness Test: Not reported  
Tank Actual Status Date: 08/06/1996  
Tag Number: Not reported

Tank ID: 4299  
Tank Name: 1 - REG  
Install Date: 12/31/1964  
Capacity: Not reported  
Tank Upgrade Date: 01/01/0001  
TankSystem Status: Removed  
TankSystem Status Change Date: 08/26/1996  
Tank Status: Removed  
Tank Permit Expiration Date: 01/01/0001  
Tank Closure Date: 01/01/0001  
Tank Pumping System: Not reported  
Tank Spill Prevention: Not reported  
Tank Overfill Prevention: Not reported  
Tank Material: Steel  
Tank Construction: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ELWYN R RAHIER (Continued)**

**U003355076**

Tank Tightness Test: Not reported  
Tank Corrosion Protection: 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  
Tank Primary Release Detection: Not reported  
Tank Second Release Detection: Not reported  
Pipe Tightness Test: Not reported  
Tank Actual Status Date: 08/06/1996  
Tag Number: Not reported

**8**  
**NNW**  
**1/2-1**  
**0.562 mi.**  
**2968 ft.**

**VENTURE BANK**  
**121 WASHINGTON AVE**  
**EATONVILLE, WA 98328**

**CSCSL** **U003974053**  
**ALLSITES** **N/A**  
**LUST**  
**UST**

**Relative:**  
**Lower**

**CSCSL:**  
Facility ID: 204996  
Region: Southwest  
Lat/Long: 46.877881364928 / -122.2514765503  
Brownfield Status: Not reported  
Rank Status: Not reported  
Clean Up Siteid: 7401  
Site Status: Awaiting Cleanup  
PSI?: Not reported  
Contaminant Name: Petroleum-Other  
Ground Water: C  
Surface Water: Not reported  
Soil: C  
Sediment: Not reported  
Air: Not reported  
Bedrock: Not reported  
Responsible Unit: Southwest

**Actual:**  
**797 ft.**

**ALLSITES:**  
Facility Id: 204996  
Latitude: 46.8778813  
Longitude: -122.25147  
Ecology Interest Type Code: SCS  
Facility ID: 204996  
Facility Company: Venture Bank  
Interaction: I  
Interaction 1: UST  
Interaction 2: Underground Storage Tank  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 619036  
Date Interation: 06/15/2004  
Date Interation 3: 06/15/2004  
ESRI OID: 20126  
  
Facility ID: 204996  
Facility Company: Venture Bank

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VENTURE BANK (Continued)

U003974053

Interaction: A  
Interaction 1: LUST  
Interaction 2: LUST Facility  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 619036  
Date Interaction: 06/17/2004  
Date Interaction 3: 06/17/2004  
ESRI OID: 20127

Facility ID: 204996  
Facility Company: Venture Bank  
Interaction: A  
Interaction 1: SCS  
Interaction 2: State Cleanup Site  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Venture Bank  
Program ID: Not reported  
Date Interaction: 09/30/2011  
Date Interaction 3: 09/30/2011  
ESRI OID: 20128

Facility/Site Interaction T: 6392  
Geographic Location Identifier (Alias Facid): 204996  
Interaction (Aka Env Int) Type Code: UST  
Interaction (Aka Env Int) Description: Underground Storage Tank  
Interaction Status: I  
Federal Program Identifier: 619036  
Interaction Start Date: 06/15/2004  
Interaction End Date: 06/17/2004  
prgm\_facil: Not reported  
cur\_sys\_pr: TOXICS  
cur\_sys\_nm: ISIS

Facility/Site Interaction T: 6393  
Geographic Location Identifier (Alias Facid): 204996  
Interaction (Aka Env Int) Type Code: LUST  
Interaction (Aka Env Int) Description: LUST Facility  
Interaction Status: A  
Federal Program Identifier: 619036  
Interaction Start Date: 06/17/2004  
Interaction End Date: Not reported  
prgm\_facil: Not reported  
cur\_sys\_pr: TOXICS  
cur\_sys\_nm: ISIS

Facility Id: 204996  
Latitude: 46.8778813  
Longitude: -122.25147  
Ecology Interest Type Code: UST  
Facility ID: 204996  
Facility Company: Venture Bank  
Interaction: I  
Interaction 1: UST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VENTURE BANK (Continued)**

**U003974053**

Interaction 2: Underground Storage Tank  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 619036  
Date Interaction: 06/15/2004  
Date Interaction 3: 06/15/2004  
ESRI OID: 20126

Facility ID: 204996  
Facility Company: Venture Bank  
Interaction: A  
Interaction 1: LUST  
Interaction 2: LUST Facility  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 619036  
Date Interaction: 06/17/2004  
Date Interaction 3: 06/17/2004  
ESRI OID: 20127

Facility ID: 204996  
Facility Company: Venture Bank  
Interaction: A  
Interaction 1: SCS  
Interaction 2: State Cleanup Site  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Venture Bank  
Program ID: Not reported  
Date Interaction: 09/30/2011  
Date Interaction 3: 09/30/2011  
ESRI OID: 20128

Facility/Site Interaction T: 6392  
Geographic Location Identifier (Alias Facid): 204996  
Interaction (Aka Env Int) Type Code: UST  
Interaction (Aka Env Int) Description: Underground Storage Tank  
Interaction Status: I  
Federal Program Identifier: 619036  
Interaction Start Date: 06/15/2004  
Interaction End Date: 06/17/2004  
prgm\_facil: Not reported  
cur\_sys\_pr: TOXICS  
cur\_sys\_nm: ISIS

Facility/Site Interaction T: 6393  
Geographic Location Identifier (Alias Facid): 204996  
Interaction (Aka Env Int) Type Code: LUST  
Interaction (Aka Env Int) Description: LUST Facility  
Interaction Status: A  
Federal Program Identifier: 619036  
Interaction Start Date: 06/17/2004  
Interaction End Date: Not reported  
prgm\_facil: Not reported  
cur\_sys\_pr: TOXICS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VENTURE BANK (Continued)

U003974053

cur\_sys\_nm: ISIS

Facility Id: 204996  
Latitude: 46.8778813  
Longitude: -122.25147  
Ecology Interest Type Code: LUST

Facility ID: 204996  
Facility Company: Venture Bank  
Interaction: I  
Interaction 1: UST  
Interaction 2: Underground Storage Tank  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 619036  
Date Interation: 06/15/2004  
Date Interation 3: 06/15/2004  
ESRI OID: 20126

Facility ID: 204996  
Facility Company: Venture Bank  
Interaction: A  
Interaction 1: LUST  
Interaction 2: LUST Facility  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Not reported  
Program ID: 619036  
Date Interation: 06/17/2004  
Date Interation 3: 06/17/2004  
ESRI OID: 20127

Facility ID: 204996  
Facility Company: Venture Bank  
Interaction: A  
Interaction 1: SCS  
Interaction 2: State Cleanup Site  
Ecology Program: TOXICS  
Program Data: ISIS  
Facility Alt.: Venture Bank  
Program ID: Not reported  
Date Interation: 09/30/2011  
Date Interation 3: 09/30/2011  
ESRI OID: 20128

Facility/Site Interaction T: 6392  
Geographic Location Identifier (Alias Facid): 204996  
Interaction (Aka Env Int) Type Code: UST  
Interaction (Aka Env Int) Description: Underground Storage Tank  
Interaction Status: I  
Federal Program Indentifier: 619036  
Interaction Start Date: 06/15/2004  
Interaction End Date: 06/17/2004  
prgm\_facil: Not reported  
cur\_sys\_pr: TOXICS  
cur\_sys\_nm: ISIS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VENTURE BANK (Continued)**

**U003974053**

Facility/Site Interaction T: 6393  
Geographic Location Identifier (Alias Facid): 204996  
Interaction (Aka Env Int) Type Code: LUST  
Interaction (Aka Env Int) Description: LUST Facility  
Interaction Status: A  
Federal Program Identifier: 619036  
Interaction Start Date: 06/17/2004  
Interaction End Date: Not reported  
prgm\_facil: Not reported  
cur\_sys\_pr: TOXICS  
cur\_sys\_nm: ISIS

**LUST:**

Facility ID: 204996  
Facility Status: Awaiting Cleanup  
Cleanup Site ID: 7401  
Cleanup Unit Type: Upland  
Process Type: No Process  
Alternate Name: VENTURE BANK  
Release Status Date: 06/17/2004  
Site Response Unit Code: Southwest  
Lat/Long: 46.8778813 / -122.25147

**UST:**

Facility ID: 204996  
Site ID: 619036  
Lat Deg: 46  
Lat Min: 52  
Lat Sec: 40.372913744078005  
Long Deg: -122  
Long Min: 15  
Long Sec: 5.3155813085709269  
UBI: Not reported  
Phone Number: Not reported

Tank ID: 618535  
Tank Name: 1  
Install Date: 01/01/0001  
Capacity: Not reported  
Tank Upgrade Date: 01/01/0001  
TankSystem Status: Removed  
TankSystem Status Change Date: 06/17/2004  
Tank Status: Removed  
Tank Permit Expiration Date: 01/01/0001  
Tank Closure Date: 01/01/0001  
Tank Pumping System: Not reported  
Tank Spill Prevention: Not reported  
Tank Overfill Prevention: Not reported  
Tank Material: Not reported  
Tank Construction: Not reported  
Tank Tightness Test: Not reported  
Tank Corrosion Protection: Not reported  
Pipe Material: Not reported  
Pipe Construction: Not reported  
Pipe Primary Release Detection: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VENTURE BANK (Continued)**

**U003974053**

Pipe Second Release Detection: Not reported  
Pipe Corrosion Protection: Not reported  
Tank Primary Release Detection: Not reported  
Tank Second Release Detection: Not reported  
Pipe Tightness Test: Not reported  
Tank Actual Status Date: 06/17/2004  
Tag Number: Not reported

Count: 7 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
EATONVILLE	1000659147	WA DOT ALDER	SR 7 MP 22 N SIDE	98328	RCRA-NonGen, FINDS
EATONVILLE	1007445351	OLD EATONVILLE DUMP	2 MI. EAST OF EATONVILLE OFF H		ODI
EATONVILLE	S110629838	BONNIE LAKE COLLECTION EVENT	EATONVILLE PUBLIC WORKS DEPT		SWF/LF
PIERCE COUNTY	S110629852	BARRY EXCAVATING LANDFILL	NW CORNER OF FREEMAN RD. & N.		SWF/LF
PIERCE COUNTY	S110336076	MCNEIL ISLAND WWTP	MCNEIL ISLAND CORRECTION CENTE		SWF/LF
PIERCE COUNTY	S110336364	AMERICAN TOPSOILS	12005 MERIDAN SOUTH		SWF/LF
PIERCE COUNTY	S110629853	ROBERT E. BOSTER DUMP	5128 WEST TAPPS HWY		SWF/LF

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

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

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### **NPL: National Priority List**

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

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

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

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/27/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/09/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/28/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2011  
Date Data Arrived at EDR: 08/31/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 132

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 11/12/2012  
Next Scheduled EDR Contact: 02/25/2013  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (206) 553-1200  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (206) 553-1200  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (206) 553-1200  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

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

Date of Government Version: 03/15/2012  
Date Data Arrived at EDR: 04/04/2012  
Date Made Active in Reports: 05/15/2012  
Number of Days to Update: 41

Source: Environmental Protection Agency  
Telephone: (206) 553-1200  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/18/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/24/2012	Telephone: 703-603-0695
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 11/05/2012
Number of Days to Update: 104	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 07/18/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/24/2012	Telephone: 703-603-0695
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 11/05/2012
Number of Days to Update: 104	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

### 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: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/21/2012
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/03/2012
	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: 04/02/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-267-2180
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

## ***State- and tribal - equivalent NPL***

### 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: 08/23/2012	Source: Department of Ecology
Date Data Arrived at EDR: 09/13/2012	Telephone: 360-407-7200
Date Made Active in Reports: 10/17/2012	Last EDR Contact: 09/10/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Semi-Annually

## ***State- and tribal - equivalent CERCLIS***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 07/23/2012	Source: Department of Ecology
Date Data Arrived at EDR: 07/27/2012	Telephone: 360-407-7200
Date Made Active in Reports: 09/21/2012	Last EDR Contact: 10/25/2012
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/04/2013
	Data Release Frequency: Semi-Annually

## **State and tribal landfill and/or solid waste disposal site lists**

### 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: 09/06/2012	Source: Department of Ecology
Date Data Arrived at EDR: 09/13/2012	Telephone: 360-407-6132
Date Made Active in Reports: 10/18/2012	Last EDR Contact: 09/06/2012
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Annually

## **State and tribal leaking storage tank lists**

### 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: 08/20/2012	Source: Department of Ecology
Date Data Arrived at EDR: 08/23/2012	Telephone: 360-407-7183
Date Made Active in Reports: 09/19/2012	Last EDR Contact: 08/23/2012
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/03/2012
	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: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 07/26/2012
Number of Days to Update: 59	Next Scheduled EDR Contact: 02/11/2013
	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: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6271
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Quarterly

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/06/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/07/2012	Telephone: 415-972-3372
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 39	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 08/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 10/30/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011	Source: EPA Region 4
Date Data Arrived at EDR: 12/15/2011	Telephone: 404-562-8677
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Semi-Annually

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: 04/12/2012	Source: EPA Region 1
Date Data Arrived at EDR: 05/09/2012	Telephone: 617-918-1313
Date Made Active in Reports: 07/10/2012	Last EDR Contact: 11/01/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 02/11/2013
	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: 08/17/2012	Source: EPA Region 7
Date Data Arrived at EDR: 08/28/2012	Telephone: 913-551-7003
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Varies

## ***State and tribal registered storage tank lists***

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: 08/20/2012	Source: Department of Ecology
Date Data Arrived at EDR: 08/23/2012	Telephone: 360-407-7183
Date Made Active in Reports: 09/19/2012	Last EDR Contact: 08/23/2012
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/03/2012
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/14/2012  
Date Data Arrived at EDR: 05/15/2012  
Date Made Active in Reports: 06/05/2012  
Number of Days to Update: 21

Source: Department of Ecology  
Telephone: 360-407-7562  
Last EDR Contact: 11/05/2012  
Next Scheduled EDR Contact: 02/18/2013  
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: 04/12/2012  
Date Data Arrived at EDR: 05/02/2012  
Date Made Active in Reports: 07/16/2012  
Number of Days to Update: 75

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 11/01/2012  
Next Scheduled EDR Contact: 02/11/2013  
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: 05/10/2011  
Date Data Arrived at EDR: 05/11/2011  
Date Made Active in Reports: 06/14/2011  
Number of Days to Update: 34

Source: EPA Region 6  
Telephone: 214-665-7591  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Semi-Annually

## INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/17/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 49

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
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: 12/14/2011  
Date Data Arrived at EDR: 12/15/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 26

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Semi-Annually

## 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: 09/06/2012  
Date Data Arrived at EDR: 09/07/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 39

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Quarterly

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/01/2012  
Date Data Arrived at EDR: 08/02/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 75

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Quarterly

## 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: 08/02/2012  
Date Data Arrived at EDR: 08/03/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 94

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
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: 08/27/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 49

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 07/26/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Quarterly

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010  
Date Data Arrived at EDR: 02/16/2010  
Date Made Active in Reports: 04/12/2010  
Number of Days to Update: 55

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 10/15/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

### INST CONTROL: Institutional Control Site List

Sites that have institutional controls.

Date of Government Version: 08/13/2012  
Date Data Arrived at EDR: 08/15/2012  
Date Made Active in Reports: 09/21/2012  
Number of Days to Update: 37

Source: Department of Ecology  
Telephone: 360-407-7170  
Last EDR Contact: 11/15/2012  
Next Scheduled EDR Contact: 02/25/2013  
Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### 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: 07/24/2012  
Date Data Arrived at EDR: 08/03/2012  
Date Made Active in Reports: 09/21/2012  
Number of Days to Update: 49

Source: Department of Ecology  
Telephone: 360-407-7200  
Last EDR Contact: 10/23/2012  
Next Scheduled EDR Contact: 02/04/2013  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/28/2012  
Date Data Arrived at EDR: 10/02/2012  
Date Made Active in Reports: 10/16/2012  
Number of Days to Update: 14

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 10/02/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

## 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: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
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

## ***State and tribal Brownfields 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.

Date of Government Version: 07/23/2012  
Date Data Arrived at EDR: 07/27/2012  
Date Made Active in Reports: 09/21/2012  
Number of Days to Update: 56

Source: Department of Ecology  
Telephone: 360-725-4030  
Last EDR Contact: 10/25/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 10/24/2012  
Date Data Arrived at EDR: 10/26/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 10

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 09/24/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 07/03/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: No Update Planned

## SWTIRE: Solid Waste Tire Facilities

This study identified sites statewide with unauthorized accumulations of scrap tires.

Date of Government Version: 11/01/2005  
Date Data Arrived at EDR: 03/16/2006  
Date Made Active in Reports: 04/13/2006  
Number of Days to Update: 28

Source: Department of Ecology  
Telephone: N/A  
Last EDR Contact: 09/14/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

## SWRCY: Recycling Facility List

A listing of recycling center locations.

Date of Government Version: 08/01/2012  
Date Data Arrived at EDR: 08/03/2012  
Date Made Active in Reports: 09/26/2012  
Number of Days to Update: 54

Source: Department of Ecology  
Telephone: 360-407-6105  
Last EDR Contact: 11/13/2012  
Next Scheduled EDR Contact: 02/11/2013  
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  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 11/05/2012  
Next Scheduled EDR Contact: 02/18/2013  
Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### 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: 07/11/2012  
Date Data Arrived at EDR: 09/12/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 54

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/17/2012  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ALLSITES: Facility/Site Identification System Listing

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

Date of Government Version: 08/06/2012	Source: Department of Ecology
Date Data Arrived at EDR: 08/09/2012	Telephone: 360-407-6423
Date Made Active in Reports: 09/21/2012	Last EDR Contact: 11/05/2012
Number of Days to Update: 43	Next Scheduled EDR Contact: 02/18/2013
	Data Release Frequency: Quarterly

## CSCSL NFA: Confirmed and Contaminated Sites - No Further Action

The data set contains information about sites previously on the Confirmed and Suspected Contaminated Sites list that have received a No Further Action (NFA) determination. Because it is necessary to maintain historical records of sites that have been investigated and cleaned up, sites are not deleted from the database when cleanup activities are completed. Instead, a No Further Action code is entered based upon the type of NFA determination the site received.

Date of Government Version: 07/23/2012	Source: Department of Ecology
Date Data Arrived at EDR: 07/27/2012	Telephone: 360-407-7170
Date Made Active in Reports: 09/21/2012	Last EDR Contact: 10/25/2012
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/04/2013
	Data Release Frequency: Semi-Annually

## 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: 02/09/2009	Source: Department of Health
Date Data Arrived at EDR: 03/18/2009	Telephone: 360-236-3380
Date Made Active in Reports: 03/24/2009	Last EDR Contact: 11/12/2012
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/25/2013
	Data Release Frequency: Varies

## 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	Source: Department of Health
Date Data Arrived at EDR: 06/26/2007	Telephone: 360-236-3381
Date Made Active in Reports: 07/19/2007	Last EDR Contact: 06/02/2008
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

## **Local Land Records**

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/26/2012	Telephone: 202-564-6023
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 11/01/2012
Number of Days to Update: 80	Next Scheduled EDR Contact: 02/11/2013
	Data Release Frequency: Varies

## Records of Emergency Release Reports

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/01/2012	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-366-4555
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

### SPILLS: Reported Spills

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

Date of Government Version: 09/24/2012	Source: Department of Ecology
Date Data Arrived at EDR: 09/26/2012	Telephone: 360-407-6950
Date Made Active in Reports: 10/17/2012	Last EDR Contact: 09/24/2012
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Semi-Annually

## Other Ascertainable Records

### RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/15/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/04/2012	Telephone: (206) 553-1200
Date Made Active in Reports: 05/15/2012	Last EDR Contact: 10/04/2012
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 11/06/2012
Number of Days to Update: 42	Next Scheduled EDR Contact: 02/18/2013
	Data Release Frequency: Varies

### DOD: Department of Defense Sites

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 10/18/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Semi-Annually

## 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: 12/31/2009  
Date Data Arrived at EDR: 08/12/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 09/10/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/01/2012  
Date Data Arrived at EDR: 07/24/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 10/01/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Varies

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012  
Date Data Arrived at EDR: 03/14/2012  
Date Made Active in Reports: 06/14/2012  
Number of Days to Update: 92

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 09/12/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Annually

## UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 08/28/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Varies

## MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011  
Date Data Arrived at EDR: 09/08/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 09/04/2012  
Next Scheduled EDR Contact: 12/17/2012  
Data Release Frequency: Semi-Annually

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 09/01/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 131

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 09/20/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Annually

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 09/29/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 64

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 06/29/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/22/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/22/2012  
Next Scheduled EDR Contact: 12/10/2012  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 11/01/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011  
Date Data Arrived at EDR: 11/10/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 61

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 10/19/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010  
Date Data Arrived at EDR: 11/10/2010  
Date Made Active in Reports: 02/16/2011  
Number of Days to Update: 98

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 10/19/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Annually

## 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: 06/21/2011  
Date Data Arrived at EDR: 07/15/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 60

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 09/05/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Quarterly

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012  
Date Data Arrived at EDR: 10/02/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 34

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 10/02/2012  
Next Scheduled EDR Contact: 01/21/2013  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011	Source: EPA
Date Data Arrived at EDR: 12/13/2011	Telephone: (206) 553-1200
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 09/11/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 08/31/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Biennially

## UIC: Underground Injection Wells Listing

A listing of underground injection wells.

Date of Government Version: 08/20/2012	Source: Department of Ecology
Date Data Arrived at EDR: 08/24/2012	Telephone: 360-407-6143
Date Made Active in Reports: 09/19/2012	Last EDR Contact: 08/24/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Varies

## WA MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2011	Source: Department of Ecology
Date Data Arrived at EDR: 04/27/2012	Telephone: N/A
Date Made Active in Reports: 06/05/2012	Last EDR Contact: 10/22/2012
Number of Days to Update: 39	Next Scheduled EDR Contact: 02/04/2013
	Data Release Frequency: Annually

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 04/27/2012  
Date Made Active in Reports: 06/05/2012  
Number of Days to Update: 39

Source: Department of Ecology  
Telephone: 360-407-6732  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Varies

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

Date of Government Version: 07/24/2012  
Date Data Arrived at EDR: 07/27/2012  
Date Made Active in Reports: 09/19/2012  
Number of Days to Update: 54

Source: Department of Ecology  
Telephone: 360-407-6073  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Quarterly

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

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 01/12/2012  
Date Made Active in Reports: 02/29/2012  
Number of Days to Update: 48

Source: Department of Ecology  
Telephone: 360-407-6040  
Last EDR Contact: 09/24/2012  
Next Scheduled EDR Contact: 01/07/2013  
Data Release Frequency: Annually

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

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 04/27/2012  
Date Made Active in Reports: 06/05/2012  
Number of Days to Update: 39

Source: Department of Ecology  
Telephone: 360-407-6732  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Annually

INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 10/18/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011  
Date Data Arrived at EDR: 03/09/2011  
Date Made Active in Reports: 05/02/2011  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 10/18/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: N/A

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011  
Date Data Arrived at EDR: 05/18/2012  
Date Made Active in Reports: 05/25/2012  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 08/16/2012  
Next Scheduled EDR Contact: 11/26/2012  
Data Release Frequency: Varies

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/01/2012  
Date Data Arrived at EDR: 10/04/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 32

Source: EPA  
Telephone: 202-564-6023  
Last EDR Contact: 10/04/2012  
Next Scheduled EDR Contact: 01/14/2013  
Data Release Frequency: Quarterly

## 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.

Date of Government Version: 02/24/2012  
Date Data Arrived at EDR: 02/24/2012  
Date Made Active in Reports: 03/27/2012  
Number of Days to Update: 32

Source: Department of Ecology  
Telephone: 360-586-1060  
Last EDR Contact: 08/15/2012  
Next Scheduled EDR Contact: 12/03/2012  
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: 02/01/2001  
Date Data Arrived at EDR: 03/06/2007  
Date Made Active in Reports: 04/19/2007  
Number of Days to Update: 44

Source: Department of Ecology  
Telephone: 360-407-6136  
Last EDR Contact: 08/20/2012  
Next Scheduled EDR Contact: 12/03/2012  
Data Release Frequency: Varies

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/13/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 36

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 11/12/2012  
Next Scheduled EDR Contact: 02/25/2013  
Data Release Frequency: Quarterly

## 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: 08/20/2012  
Date Data Arrived at EDR: 08/28/2012  
Date Made Active in Reports: 11/05/2012  
Number of Days to Update: 69

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 08/14/2012  
Next Scheduled EDR Contact: 12/03/2012  
Data Release Frequency: Quarterly

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011  
Date Data Arrived at EDR: 10/19/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 83

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 11/02/2012  
Next Scheduled EDR Contact: 02/11/2013  
Data Release Frequency: Varies

## COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 10/16/2012  
Next Scheduled EDR Contact: 01/28/2013  
Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010  
Date Data Arrived at EDR: 01/03/2011  
Date Made Active in Reports: 03/21/2011  
Number of Days to Update: 77

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 09/14/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

## 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: 05/23/2011  
Date Data Arrived at EDR: 05/26/2011  
Date Made Active in Reports: 06/27/2011  
Number of Days to Update: 32

Source: Department of Ecology  
Telephone: 360-407-6754  
Last EDR Contact: 05/21/2012  
Next Scheduled EDR Contact: 09/03/2012  
Data Release Frequency: Varies

## COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 06/29/2009  
Date Data Arrived at EDR: 07/02/2009  
Date Made Active in Reports: 07/08/2009  
Number of Days to Update: 6

Source: Department of Ecology  
Telephone: 360-407-6933  
Last EDR Contact: 09/10/2012  
Next Scheduled EDR Contact: 12/24/2012  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

#### Manufactured Gas Plants: 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 Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## COUNTY RECORDS

### KING COUNTY:

#### 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  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SEATTLE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## SEATTLE/KING COUNTY:

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

## SNOHOMISH COUNTY:

### Solid Waste Sites of Record at Snohomish Health District

Solid waste disposal and/or utilization sites in Snohomish County.

Date of Government Version: 11/16/2011	Source: Snohomish Health District
Date Data Arrived at EDR: 03/29/2012	Telephone: 206-339-5250
Date Made Active in Reports: 05/03/2012	Last EDR Contact: 09/28/2012
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/07/2013
	Data Release Frequency: Semi-Annually

## TACOMA/PIERCE COUNTY:

### 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.

Date of Government Version: 09/01/2002	Source: Tacoma-Pierce County Health Department
Date Data Arrived at EDR: 03/24/2003	Telephone: 206-591-6500
Date Made Active in Reports: 05/14/2003	Last EDR Contact: 03/19/2003
Number of Days to Update: 51	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 08/20/2012  
Date Data Arrived at EDR: 08/20/2012  
Date Made Active in Reports: 09/20/2012  
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 08/20/2012  
Next Scheduled EDR Contact: 12/03/2012  
Data Release Frequency: Annually

## 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: 08/01/2012  
Date Data Arrived at EDR: 08/09/2012  
Date Made Active in Reports: 10/03/2012  
Number of Days to Update: 55

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 11/07/2012  
Next Scheduled EDR Contact: 02/18/2013  
Data Release Frequency: Annually

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/23/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 57

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 10/22/2012  
Next Scheduled EDR Contact: 02/04/2013  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/19/2012  
Date Made Active in Reports: 09/27/2012  
Number of Days to Update: 70

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/18/2012  
Next Scheduled EDR Contact: 12/31/2012  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## Electric Power Transmission Line Data

Source: Rextag Strategies Corp.  
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

## Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

HAMILTON PROPERTIES  
NEAR 433 CENTER STREET EAST  
EATONVILLE, WA 98328

### TARGET PROPERTY COORDINATES

Latitude (North):	46.8605 - 46° 51' 37.80"
Longitude (West):	122.2591 - 122° 15' 32.76"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	556475.4
UTM Y (Meters):	5189710.0
Elevation:	798 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	46122-G3 EATONVILLE, WA
Most Recent Revision:	1990
East Map:	46122-G2 ELBE, WA
Most Recent Revision:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

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

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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

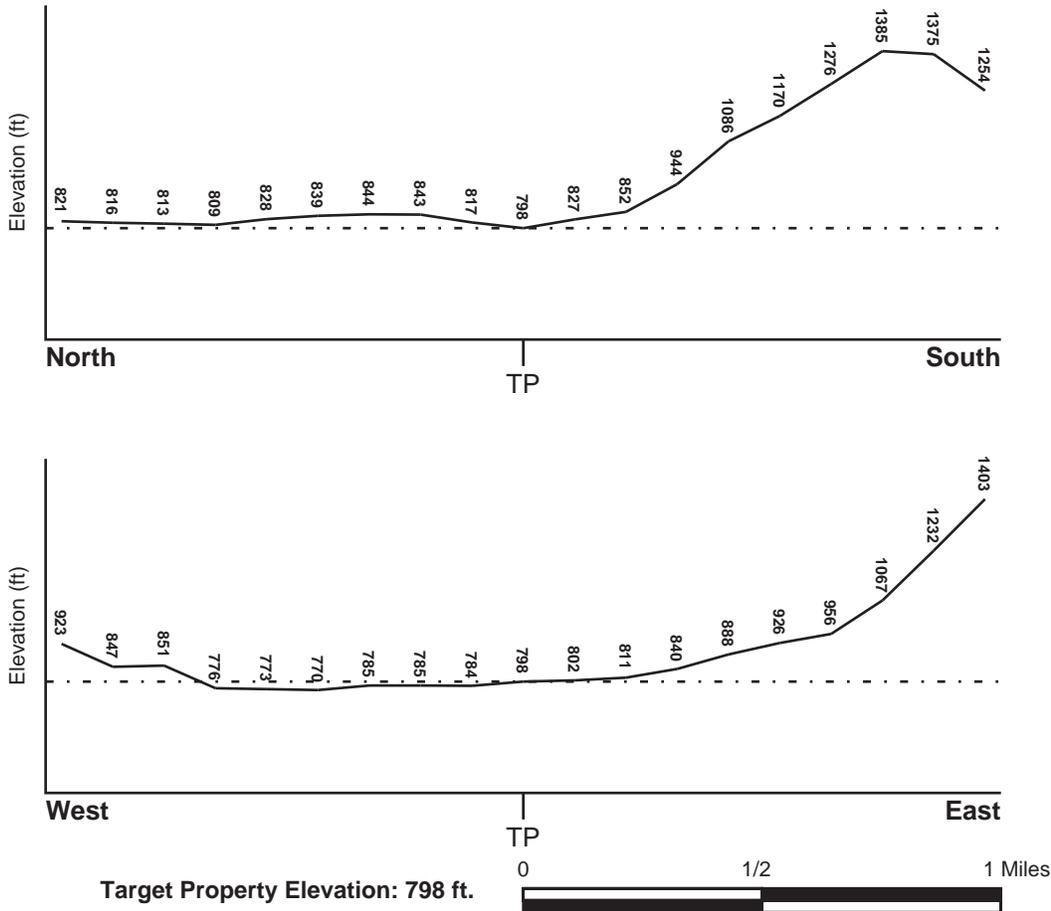
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

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

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

## FEMA FLOOD ZONE

Target Property County  
PIERCE, WA

FEMA Flood  
Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 5301381107C - FEMA Q3 Flood data

Additional Panels in search area:  
5301380895C - FEMA Q3 Flood data  
5301381126C - FEMA Q3 Flood data  
5302830001A - FEMA Q3 Flood data

## NATIONAL WETLAND INVENTORY

NWI Quad at Target Property  
EATONVILLE

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.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

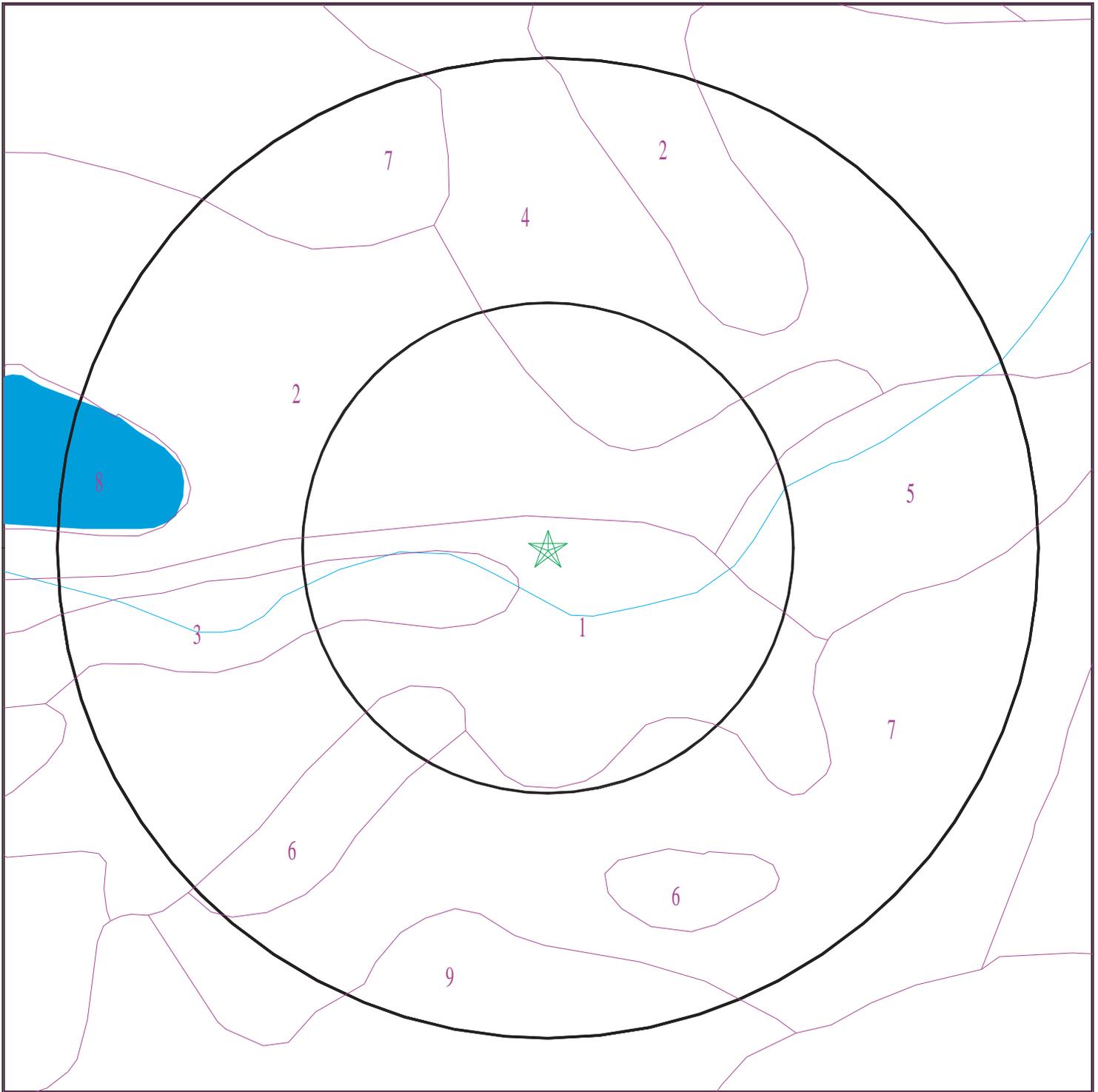
Era: Cenozoic  
System: Tertiary  
Series: Lower Tertiary andesite  
Code: ITa (*decoded above as Era, System & Series*)

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Volcanic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 3456491.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Hamilton Properties  
ADDRESS: Near 433 Center Street East  
Eatonville WA 98328  
LAT/LONG: 46.8605 / 122.2591

CLIENT: Geo Engineers, Inc.  
CONTACT: Jessica Robertson  
INQUIRY #: 3456491.2s  
DATE: November 15, 2012 2:39 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Aquic Xerofluents

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141	Max: 7.3 Min: 6.6
2	9 inches	31 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141	Max: 7.3 Min: 6.6
3	31 inches	59 inches	loamy fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 705 Min: 141	Max: 7.3 Min: 6.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 2

Soil Component Name: Barneston

Soil Surface Texture: gravelly coarse 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: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	gravelly coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 705 Min: 141	Max: 6 Min: 5.6
2	12 inches	59 inches	very gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 705 Min: 141	Max: 6 Min: 5.6

### Soil Map ID: 3

Soil Component Name: Riverwash

Soil Surface Texture: stratified gravel to sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	59 inches	stratified gravel to sand	Not reported	Not reported	Max: Min:	Max: Min:

### Soil Map ID: 4

Soil Component Name: Barneston

Soil Surface Texture: gravelly coarse 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: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	gravelly coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 705 Min: 141	Max: 6 Min: 5.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	12 inches	59 inches	very gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel. COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel.	Max: 705 Min: 141	Max: 6 Min: 5.6

### Soil Map ID: 5

Soil Component Name: Newberg

Soil Surface Texture: 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: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 53 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 705 Min: 141	Max: 6 Min: 5.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	12 inches	53 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 705 Min: 141	Max: 6 Min: 5.6
3	53 inches	59 inches	very gravelly sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 705 Min: 141	Max: 6 Min: 5.6

**Soil Map ID: 6**

Soil Component Name: Rock outcrop

Soil Surface Texture: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.  
 Hydrologic Group:

Soil Drainage Class:  
 Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	59 inches		Not reported	Not reported	Max: Min:	Max: Min:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 7**

Soil Component Name: Scamman

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6 Min: 5.6
2	7 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6 Min: 5.6
3	14 inches	35 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6 Min: 5.6
4	35 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6 Min: 5.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 8

Soil Component Name: Water

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### Soil Map ID: 9

Soil Component Name: Scamman

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6 Min: 5.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	7 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6 Min: 5.6
3	14 inches	35 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6 Min: 5.6
4	35 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 6 Min: 5.6

### 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

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A3	USGS3286111	0 - 1/8 Mile North
4	USGS3286120	1/8 - 1/4 Mile North
9	USGS3286112	1/4 - 1/2 Mile West
10	USGS3286068	1/2 - 1 Mile West
11	USGS3286191	1/2 - 1 Mile WNW

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
13	USGS3286274	1/2 - 1 Mile NNW
14	USGS3286192	1/2 - 1 Mile ENE
C16	USGS3286041	1/2 - 1 Mile WSW
C17	USGS3286039	1/2 - 1 Mile WSW
18	USGS3286348	1/2 - 1 Mile North
C19	USGS3286040	1/2 - 1 Mile WSW
20	USGS3285966	1/2 - 1 Mile WSW
21	USGS3285824	1/2 - 1 Mile SSW
D22	USGS3286360	1/2 - 1 Mile NNW
D23	USGS3286362	1/2 - 1 Mile NNW
24	USGS3286113	1/2 - 1 Mile West
25	USGS3285891	1/2 - 1 Mile SW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

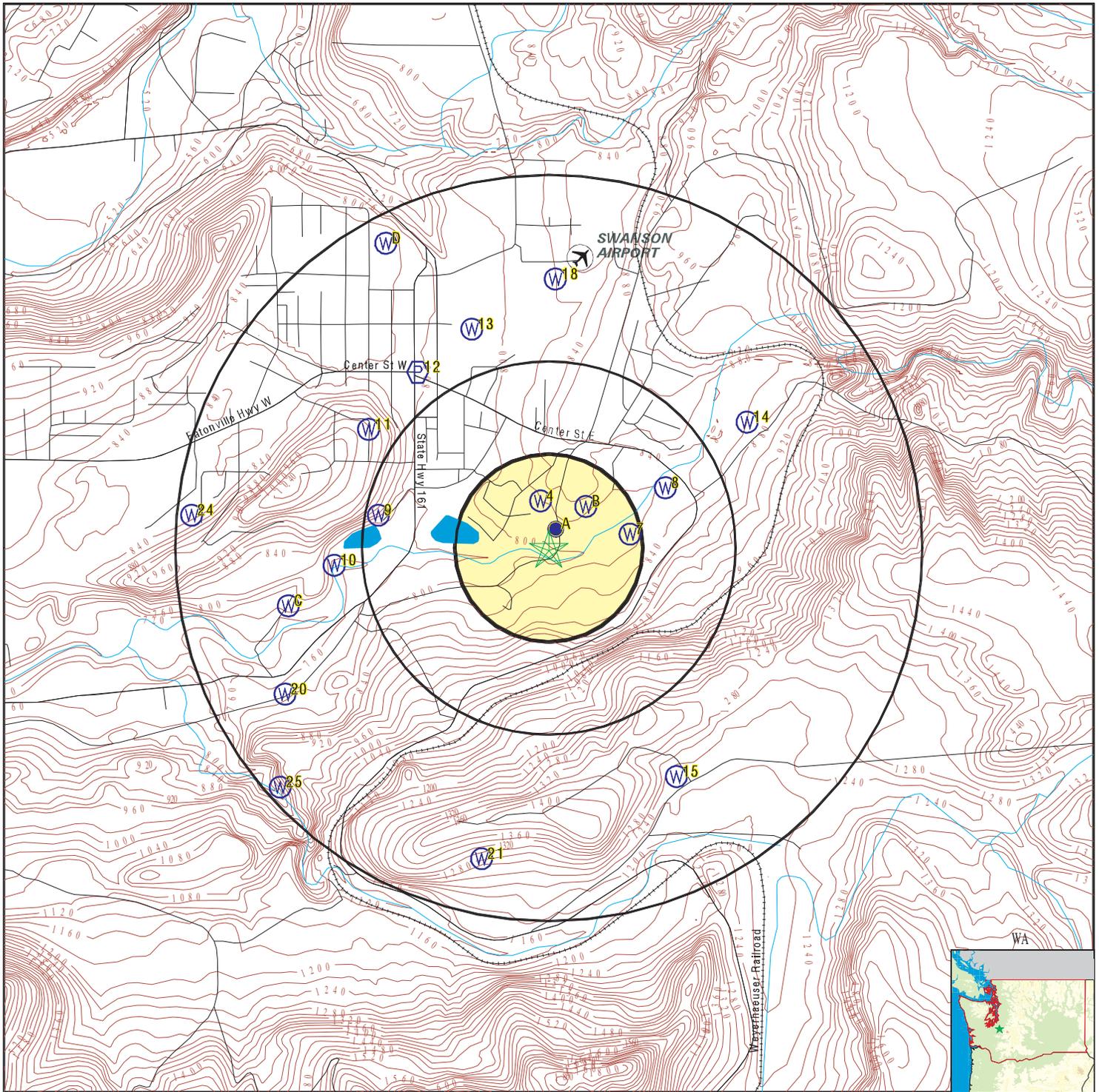
MAP ID	WELL ID	LOCATION FROM TP
12	WA5327280	1/2 - 1 Mile NW

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

## STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	WA7000000005425	0 - 1/8 Mile NNE
A2	WA7000000005424	0 - 1/8 Mile NE
B5	WA7000000005437	1/8 - 1/4 Mile NE
B6	WA7000000005438	1/8 - 1/4 Mile NE
7	WA7000000005426	1/8 - 1/4 Mile East
8	WA7000000005442	1/4 - 1/2 Mile ENE
15	WA7000000005399	1/2 - 1 Mile SSE

# PHYSICAL SETTING SOURCE MAP - 3456491.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data



SITE NAME: Hamilton Properties  
 ADDRESS: Near 433 Center Street East  
 Eatonville WA 98328  
 LAT/LONG: 46.8605 / 122.2591

CLIENT: Geo Engineers, Inc.  
 CONTACT: Jessica Robertson  
 INQUIRY #: 3456491.2s  
 DATE: November 15, 2012 2:39 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**NNE**  
**0 - 1/8 Mile**  
**Higher**

**WA WELLS      WA7000000005425**

Objectid:	7280	Pwsid:	22300
Srcnum:	01	Pwsrcid:	2230001
Systemname:	EATONVILLE WATER DEPT		
Systemgrou:	A		
Systemtype:	Comm	Region:	NW
County:	PIERCE	Smaid:	Not Reported
Ftrespopul:	2012	Resconnect:	875
Totalconne:	1005	Srcname:	WELL #1 (ACV530)
Srctype:	WW	Srcusecode:	P
Srcwelldep:	52	Township:	16
Range:	04E	Section:	23
Qtrqtrsect:	NENE		
Longitude:	-122.258616		
Latitude:	46.860999		
Latlongmet:	GPS	Srcsuscept:	U
Srcvulnioc:	U	Srcvulnvoc:	U
Srcvulnsoc:	U	Doewelltag:	ACV530
Srctot6mo:	700	Srctot1yr:	980
Srctot5yr:	2200	Srctot10yr:	3110
Protection:	CFR	Pricontact:	3608328524
Priconta 1:	ATTN: MIKE TILLER	Priconta 2:	PO BOX 309
Priconta 3:	EATONVILLE	Priconta 4:	WA
Priconta 5:	98328		
Priconta 6:	mtiller@rainierconnect.com		
Pwseffecti:	01/01/1970	Srceffecti:	01/01/1970
Internalon:	N	Site id:	WA7000000005425

**A2**  
**NE**  
**0 - 1/8 Mile**  
**Higher**

**WA WELLS      WA7000000005424**

Objectid:	7281	Pwsid:	22300
Srcnum:	02	Pwsrcid:	2230002
Systemname:	EATONVILLE WATER DEPT		
Systemgrou:	A		
Systemtype:	Comm	Region:	NW
County:	PIERCE	Smaid:	Not Reported
Ftrespopul:	2012	Resconnect:	875
Totalconne:	1005	Srcname:	WELL #2
Srctype:	WW	Srcusecode:	P
Srcwelldep:	46	Township:	16
Range:	04E	Section:	23
Qtrqtrsect:	NENE		
Longitude:	-122.258202		
Latitude:	46.860936		
Latlongmet:	GPS	Srcsuscept:	U
Srcvulnioc:	U	Srcvulnvoc:	U
Srcvulnsoc:	U	Doewelltag:	Not Reported
Srctot6mo:	700	Srctot1yr:	980

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Srctot5yr:	2200	Srctot10yr:	3110
Protection:	CFR	Pricontact:	3608328524
Priconta 1:	ATTN: MIKE TILLER	Priconta 2:	PO BOX 309
Priconta 3:	EATONVILLE	Priconta 4:	WA
Priconta 5:	98328		
Priconta 6:	mtiller@rainierconnect.com		
Pwseffecti:	01/01/1970	Srceffecti:	01/01/1970
Internalon:	N	Site id:	WA7000000005424

**A3  
North  
0 - 1/8 Mile  
Higher**

**FED USGS      USGS3286111**

Agency cd:	USGS	Site no:	465143122152901
Site name:	16N/04E-23A02	EDR Site id:	USGS3286111
Latitude:	465143	Dec lat:	46.86177094
Longitude:	1221529	Coor meth:	M
Dec lon:	-122.25927951	Latlong datum:	NAD27
Coor accr:	S	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	NE NE S23 T16N R04E W
Country:	US	Map scale:	24000
Location map:	EATONVILLE		
Altitude:	820		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually, Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19690619
Date inventoried:	19690701	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	44	Hole depth:	Not Reported
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1969-06-19	Ground water data end date:	1969-06-19
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1969-06-19	23	

**4  
North  
1/8 - 1/4 Mile  
Higher**

**FED USGS      USGS3286120**



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Srctot5yr:	2200	Srctot10yr:	3110
Protection:	CFR	Pricontact:	3608328524
Priconta 1:	ATTN: MIKE TILLER	Priconta 2:	PO BOX 309
Priconta 3:	EATONVILLE	Priconta 4:	WA
Priconta 5:	98328		
Priconta 6:	mtiller@rainierconnect.com		
Pwseffecti:	01/01/1970	Srceffecti:	10/11/2004
Internalon:	N	Site id:	WA7000000005437

**B6  
NE  
1/8 - 1/4 Mile  
Higher**

**WA WELLS    WA7000000005438**

Objectid:	7284	Pwsid:	22300
Srcnum:	09	Pwssrcid:	2230009
Systemname:	EATONVILLE WATER DEPT		
Systemgrou:	A		
Systemtype:	Comm	Region:	NW
County:	PIERCE	Smaid:	Not Reported
Ftrespopul:	2012	Resconnect:	875
Totalconne:	1005	Srcname:	WELL #7 (AKT667)
Srctype:	WW	Srcusecode:	P
Srcwelldep:	94	Township:	16
Range:	04E	Section:	23
Qtrqtrsect:	NENE		
Longitude:	-122.257		
Latitude:	46.86211		
Latlongmet:	QtrQtrSe	Srcsuscept:	H
Srcvulnioc:	L	Srcvulnvoc:	M
Srcvulsoc:	H	Doewelltag:	AKT667
Srctot6mo:	980	Srctot1yr:	1390
Srctot5yr:	3110	Srctot10yr:	4400
Protection:	CFR	Pricontact:	3608328524
Priconta 1:	ATTN: MIKE TILLER	Priconta 2:	PO BOX 309
Priconta 3:	EATONVILLE	Priconta 4:	WA
Priconta 5:	98328		
Priconta 6:	mtiller@rainierconnect.com		
Pwseffecti:	01/01/1970	Srceffecti:	10/11/2004
Internalon:	N	Site id:	WA7000000005438

**7  
East  
1/8 - 1/4 Mile  
Higher**

**WA WELLS    WA7000000005426**

Objectid:	7282	Pwsid:	22300
Srcnum:	05	Pwssrcid:	2230005
Systemname:	EATONVILLE WATER DEPT		
Systemgrou:	A		
Systemtype:	Comm	Region:	NW
County:	PIERCE	Smaid:	Not Reported
Ftrespopul:	2012	Resconnect:	875
Totalconne:	1005	Srcname:	MASHELL RIVER

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Srctype:	S	Srcusecode:	P
Srcwelldep:	0	Township:	16
Range:	04E	Section:	23
Qtrqtrsect:	NENE		
Longitude:	-122.254503		
Latitude:	46.861037		
Latlongmet:	GPS	Srcsuscept:	H
Srcvulnioc:	M	Srcvulnvoc:	M
Srcvulsoc:	U	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	SW	Pricontact:	3608328524
Pricon 1:	ATTN: MIKE TILLER	Pricon 2:	PO BOX 309
Pricon 3:	EATONVILLE	Pricon 4:	WA
Pricon 5:	98328		
Pricon 6:	mtiller@rainierconnect.com		
Pwseffecti:	01/01/1970	Srceffecti:	01/01/1970
Internalon:	N	Site id:	WA7000000005426

**8  
ENE  
1/4 - 1/2 Mile  
Higher**

**WA WELLS      WA7000000005442**

Objectid:	2489	Pwsid:	03957
Srcnum:	01	Pwsrcid:	0395701
Systemname:	THURESON WATER SYSTEM		
Systemgrou:	B		
Systemtype:	GRPB	Region:	NW
County:	PIERCE	Smaid:	Not Reported
Ftrespopul:	6	Resconnect:	2
Totalconne:	2	Srcname:	WELL
Srctype:	W	Srcusecode:	P
Srcwelldep:	100	Township:	16
Range:	04E	Section:	24
Qtrqtrsect:	NWNW		
Longitude:	-122.252505		
Latitude:	46.862837		
Latlongmet:	GPS	Srcsuscept:	H
Srcvulnioc:	H	Srcvulnvoc:	H
Srcvulsoc:	U	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0
Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	00000-000
Pricon 1:	Not Reported	Pricon 2:	2909 E DENNY WAY
Pricon 3:	SEATTLE	Pricon 4:	WA
Pricon 5:	98122		
Pricon 6:	Not Reported		
Pwseffecti:	10/11/1994	Srceffecti:	10/11/1994
Internalon:	N	Site id:	WA7000000005442

**9  
West  
1/4 - 1/2 Mile  
Higher**

**FED USGS      USGS3286112**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	465143122160301
Site name:	16N/04E-23C01	EDR Site id:	USGS3286112
Latitude:	465143	Dec lat:	46.86177082
Longitude:	1221603	Coor meth:	M
Dec lon:	-122.2687242	Latlong datum:	NAD27
Coor accr:	T	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	NE NW S23 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19850321
Date inventoried:	19850529	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	38	Hole depth:	38
Source of depth data:	driller		
Project number:	WA00228		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1985-03-21	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1985-03-21

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1985-03-21	22	

**10  
West  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS3286068**

Agency cd:	USGS	Site no:	465136122161201
Site name:	16N/04E-23NW1	EDR Site id:	USGS3286068
Latitude:	465136	Dec lat:	46.85982638
Longitude:	1221612	Coor meth:	M
Dec lon:	-122.27122423	Latlong datum:	NAD27
Coor accr:	T	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	NW S23 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19901008
Date inventoried:	19910821	Mean greenwich time offset:	PST



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1958-04-14		30

**12  
NW  
1/2 - 1 Mile  
Higher**

**FRDS PWS WA5327280**

PWS ID: WA5327280  
 Date Initiated: Not Reported Date Deactivated: Not Reported  
 PWS Name: GAYDA'S RESORT  
 EATONVILLE, WA 98328

Addressee / Facility: Not Reported

Facility Latitude: 46 52 03 Facility Longitude: 122 15 55  
 City Served: Not Reported  
 Treatment Class: Treated Population: 00000025

Violations information not reported.

**ENFORCEMENT INFORMATION:**

Truedate:	03/31/2009	Pwsid:	WA5327280
Pwsname:	RAINBOW RESORT	Pwstypecod:	NC
Retpopsrvd:	55	Contaminant:	COLIFORM (TCR)
Void:	0521334		
Viol. Type:	MCL, Monthly (TCR)		
Complperbe:	9/1/2005 0:00:00		
Complperen:	9/30/2005 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	WA5327280
Pwsname:	RAINBOW RESORT	Pwstypecod:	NC
Retpopsrvd:	55	Contaminant:	COLIFORM (TCR)
Void:	0845165		
Viol. Type:	MCL, Acute (TCR)		
Complperbe:	10/1/2008 0:00:00		
Complperen:	10/31/2008 0:00:00	Enfdate:	No Enf Action as of
Enf action:	7/8/2009 0:00:00		
Violmeasur:	Not Reported		

System Name:	RAINBOW RESORT		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2005 0:00:00 - 9/30/2005 0:00:00		
Violation ID:	0521334		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported

System Name:	RAINBOW RESORT		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2005 0:00:00 - 9/30/2005 0:00:00		
Violation ID:	0521334		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

**CONTACT INFORMATION:**

Name:	RAINBOW RESORT	Population:	55
Contact:	Dave Potter	Phone:	Not Reported
Address:	34217 Tanwax Ct E		
Address 2:	Eatonville		
	WA, 98		

**13  
NNW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS3286274**

Agency cd:	USGS	Site no:	465209122154401
Site name:	16N/04E-14K01	EDR Site id:	USGS3286274
Latitude:	465209	Dec lat:	46.86899298
Longitude:	1221544	Coor meth:	M
Dec lon:	-122.26344641	Latlong datum:	NAD27
Coor accr:	M	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	NW SE S14 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19790930
Date inventoried:	19800104	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	80	Hole depth:	80
Source of depth data:	driller		
Project number:	WA00228		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**14  
ENE  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS3286192**

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	465156122144801
Site name:	16N/04E-13P01	EDR Site id:	USGS3286192
Latitude:	465156	Dec lat:	46.86538211
Longitude:	1221448	Coor meth:	M
Dec lon:	-122.24789041	Latlong datum:	NAD27
Coor accr:	M	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	SE SW S13 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19930104
Date inventoried:	19930302	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	UNCLASSIFIED OVERBURDEN		
Well depth:	400	Hole depth:	401
Source of depth data:	driller		
Project number:	WA00228		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1993-01-11	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1993-01-11

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1993-01-11	354	

**15**  
**SSE**  
**1/2 - 1 Mile**  
**Higher**

**WA WELLS      WA7000000005399**

Objectid:	801	Pwsid:	01361
Srcnum:	01	Pwssrcid:	0136101
Systemname:	RAINIER RIDGE WATER SYSTEM		
Systemgrou:	B		
Systemtype:	GRPB	Region:	NW
County:	PIERCE	Smaid:	Not Reported
Ftrespopul:	9	Resconnect:	6
Totalconne:	6	Srcname:	WELL 1
Srctype:	W	Srcusecode:	P
Srcwelldep:	138	Township:	16
Range:	04E	Section:	24
Qtrqrsect:	SWSW		
Longitude:	-122.251878		
Latitude:	46.851628		
Latlongmet:	GPS	Srcsuscept:	H
Srvulnioc:	H	Srvulnvoc:	H
Srvulsoc:	U	Doewelltag:	Not Reported
Srctot6mo:	0	Srctot1yr:	0

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Srctot5yr:	0	Srctot10yr:	0
Protection:	Assigned	Pricontact:	3608323052
Priconta 1:	Not Reported	Priconta 2:	PO BOX 968
Priconta 3:	EATONVILLE	Priconta 4:	WA
Priconta 5:	98328		
Priconta 6:	Not Reported		
Pwseffecti:	04/02/1992	Srceffecti:	04/02/1992
Internalon:	N	Site id:	WA7000000005399

**C16**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3286041**

Agency cd:	USGS	Site no:	465131122162101
Site name:	16N/04E-23E03	EDR Site id:	USGS3286041
Latitude:	465131	Dec lat:	46.85843748
Longitude:	1221621	Coor meth:	M
Dec lon:	-122.27372428	Latlong datum:	NAD27
Coor accr:	T	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	SW NW S23 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19900726
Date inventoried:	19901107	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	134	Hole depth:	134
Source of depth data:	driller		
Project number:	WA00228		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1990-07-27	Ground water data end date:	1990-07-27
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1990-07-27	27	

**C17**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3286039**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	465130122162101
Site name:	16N/04E-23E02	EDR Site id:	USGS3286039
Latitude:	465130	Dec lat:	46.85815971
Longitude:	1221621	Coor meth:	M
Dec lon:	-122.27372427	Latlong datum:	NAD27
Coor accr:	M	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	SW NW S23 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19900723
Date inventoried:	19901107	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	223	Hole depth:	223
Source of depth data:	driller		
Project number:	WA00228		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1990-07-25	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1990-07-25

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1990-07-25	80	

**18  
North  
1/2 - 1 Mile  
Higher**

**FED USGS USGS3286348**

Agency cd:	USGS	Site no:	465216122152701
Site name:	16N/04E-14A06	EDR Site id:	USGS3286348
Latitude:	465216	Dec lat:	46.87093745
Longitude:	1221527	Coor meth:	M
Dec lon:	-122.2587241	Latlong datum:	NAD27
Coor accr:	T	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	NE NE S14 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19941102
Date inventoried:	19941103	Mean greenwich time offset:	PST



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1978-07-11	18	

**20**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3285966**

Agency cd:	USGS	Site no:	465118122162201
Site name:	16N/04E-23M01	EDR Site id:	USGS3285966
Latitude:	465118	Dec lat:	46.85482643
Longitude:	1221622	Coor meth:	M
Dec lon:	-122.274002	Latlong datum:	NAD27
Coor accr:	T	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	NW SW S23 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually, Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19830307
Date inventoried:	19830330	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	35	Hole depth:	35
Source of depth data:	driller		
Project number:	WA00228		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1983-03-07	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1983-03-07

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1983-03-07	8	

**21**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3285824**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	465055122154201
Site name:	16N/04E-26B01		
Latitude:	465055	EDR Site id:	USGS3285824
Longitude:	1221542	Dec lat:	46.8484378
Dec lon:	-122.26289049	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	053
Country:	US	Land net:	NW NE S26 T16N R04E W
Location map:	EATONVILLE	Map scale:	24000
Altitude:	1300		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19010101
Date inventoried:	19600831	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	16	Hole depth:	Not Reported
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1960-08-31	Ground water data end date:	1960-08-31
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1960-08-31	13	

**D22  
NNW  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS3286360**

Agency cd:	USGS	Site no:	465220122160001
Site name:	16N/04E-14F01		
Latitude:	465220	EDR Site id:	USGS3286360
Longitude:	1221600	Dec lat:	46.87204842
Dec lon:	-122.26789102	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	053
Country:	US	Land net:	SE NW S14 T16N R04E W
Location map:	EATONVILLE	Map scale:	24000
Altitude:	840		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19510919
Date inventoried:	19530304	Mean greenwich time offset:	PST



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1991-07-08	47	

**24**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3286113**

Agency cd:	USGS	Site no:	465143122164101
Site name:	16N/04E-22A01	EDR Site id:	USGS3286113
Latitude:	465143	Dec lat:	46.86177068
Longitude:	1221641	Coor meth:	M
Dec lon:	-122.27928003	Latlong datum:	NAD27
Coor accr:	M	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	NE NE S22 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually, Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19910117
Date inventoried:	19910130	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	350	Hole depth:	350
Source of depth data:	driller		
Project number:	WA00228		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1991-01-28	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1991-01-28

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
1991-01-28	44	

**25**  
**SW**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3285891**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	465105122162301
Site name:	16N/04E-23N01	EDR Site id:	USGS3285891
Latitude:	465105	Dec lat:	46.85121539
Longitude:	1221623	Coor meth:	M
Dec lon:	-122.27427972	Latlong datum:	NAD27
Coor accr:	M	District:	53
Dec latlong datum:	NAD83	County:	053
State:	53	Land net:	SW SW S23 T16N R04E W
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	9999.99		
Altitude method:	Unknown		
Altitude accuracy:	999		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Nisqually. Washington. Area = 726 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19900905
Date inventoried:	19901016	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	UNCLASSIFIED OVERBURDEN		
Well depth:	138	Hole depth:	140
Source of depth data:	driller		
Project number:	WA00228		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	0000-00-00	Water quality data end date:	0000-00-00
Water quality data count:	0		
Ground water data begin date:	1990-09-07	Ground water data end date:	1990-09-07
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
------	-----------------------	---------------------

-----  
1990-09-07 28

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for PIERCE County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 98328

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

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

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Water 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.

## 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

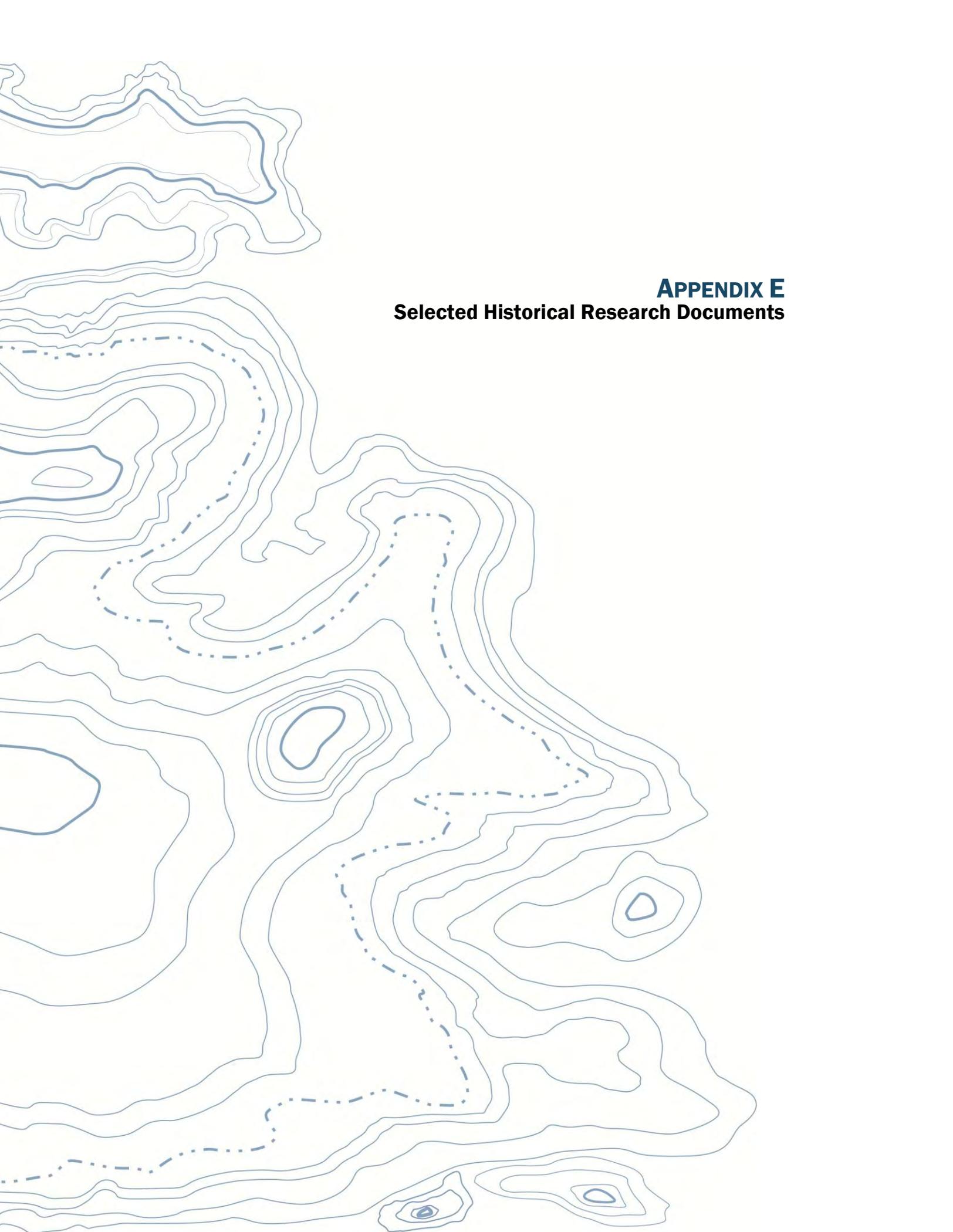
#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

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**APPENDIX E**  
**Selected Historical Research Documents**



**Hamilton Properties**

Near 433 Center Street East  
Eatonville, WA 98328

Inquiry Number: 3456491.5

November 21, 2012

## The EDR Aerial Photo Decade Package

# 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.

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***Thank you for your business.***  
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with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography November 21, 2012

**Target Property:**

Near 433 Center Street East

Eatonville, WA 98328

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1941	Aerial Photograph. Scale: 1"=750'	Panel #: 46122-G3, Eatonville, WA;/Flight Date: June 11, 1941	EDR
1952	Aerial Photograph. Scale: 1"=1000'	Panel #: 46122-G3, Eatonville, WA;/Flight Date: July 28, 1952	EDR
1957	Aerial Photograph. Scale: 1"=750'	Panel #: 46122-G3, Eatonville, WA;/Flight Date: July 29, 1957	EDR
1968	Aerial Photograph. Scale: 1"=750'	Panel #: 46122-G3, Eatonville, WA;/Flight Date: September 02, 1968	EDR
1982	Aerial Photograph. Scale: 1"=500'	Panel #: 46122-G3, Eatonville, WA;/Flight Date: July 24, 1982	EDR
1990	Aerial Photograph. Scale: 1"=750'	Panel #: 46122-G3, Eatonville, WA;/Flight Date: July 15, 1990	EDR
1992	Aerial Photograph. Scale: 1"=500'	Panel #: 46122-G3, Eatonville, WA;/Flight Date: June 18, 1992	EDR
1989,1994	Aerial Photograph. Scale: 1"=500'	Panel #: 46122-G3, Eatonville, WA;/Composite DOQQ - acquisition dates: September 12, 1989,August 10, 1994	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 46122-G3, Eatonville, WA;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 46122-G3, Eatonville, WA;/Flight Year: 2006	EDR



**INQUIRY #:** 3456491.5

**YEAR:** 1941

 = 750'





INQUIRY #: 3456491.5

YEAR: 1952

| = 1000'





INQUIRY #: 3456491.5

YEAR: 1957

| = 750'





**INQUIRY #:** 3456491.5

**YEAR:** 1968

 = 750'



INQUIRY #: 3456491.5

YEAR: 1982



| = 500'





INQUIRY #: 3456491.5

YEAR: 1990

| = 750'





INQUIRY #: 3456491.5

YEAR: 1992

| = 500'



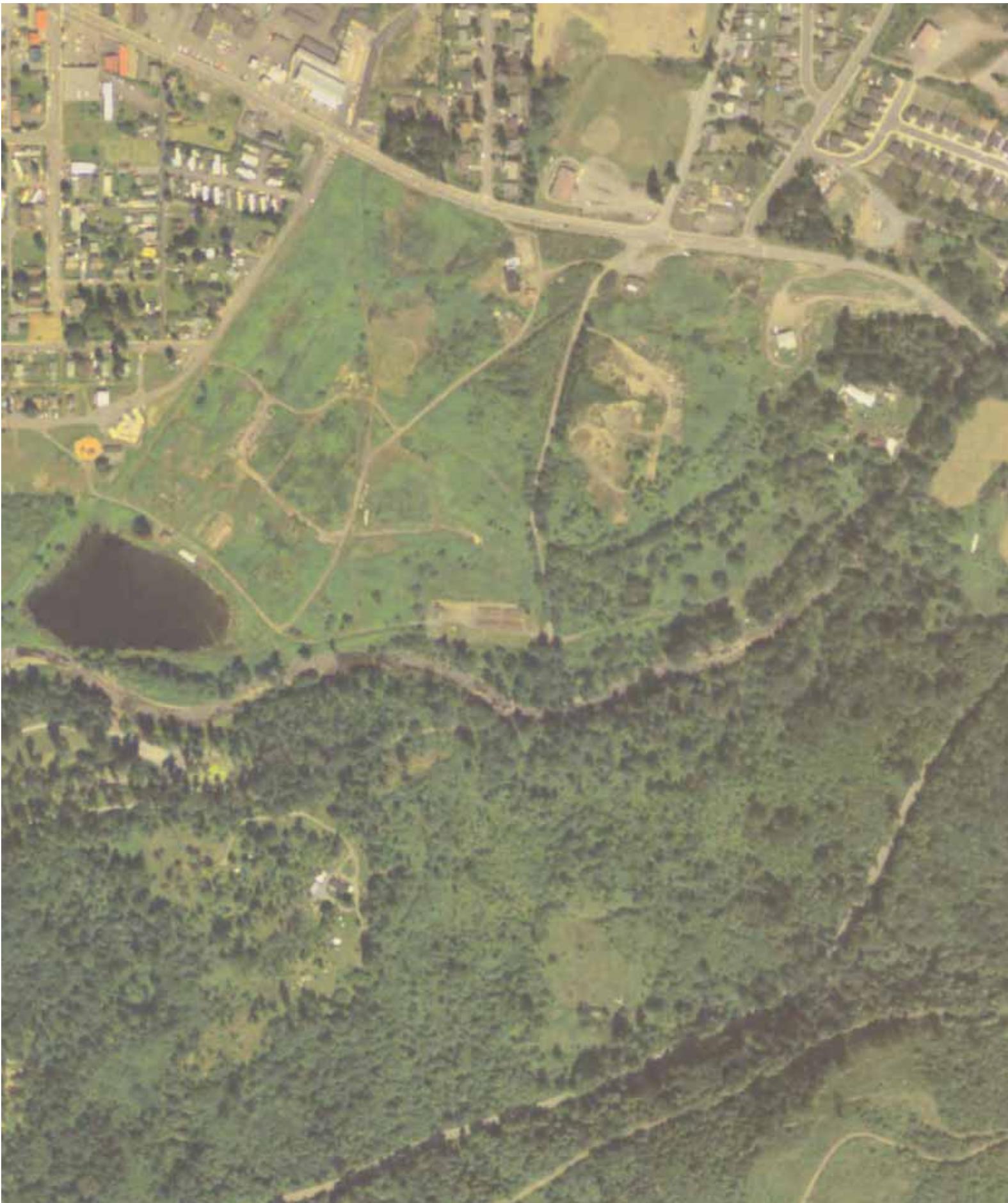


INQUIRY #: 3456491.5

YEAR: 1989, 1994 (DOQQ)

| = 500'





**INQUIRY #:** 3456491.5

**YEAR:** 2005

 = 500'





INQUIRY #: 3456491.5

YEAR: 2006

| = 500'





**Hamilton Properties**

Near 433 Center Street East  
Eatonville, WA 98328

Inquiry Number: 3456491.3

November 15, 2012

**Certified Sanborn® Map Report**

# Certified Sanborn® Map Report

11/15/12

**Site Name:**

Hamilton Properties  
Near 433 Center Street East  
Eatonville, WA 98328

**Client Name:**

Geo Engineers, Inc.  
600 Stewart Street  
Seattle, WA 98103



EDR Inquiry # 3456491.3

Contact: Jessica Robertson

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Geo Engineers, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

## Certified Sanborn Results:

**Site Name:** Hamilton Properties  
**Address:** Near 433 Center Street East  
**City, State, Zip:** Eatonville, WA 98328  
**Cross Street:**  
**P.O. #** 20894-001-00  
**Project:** Phase I ESA  
**Certification #** B34A-4F0D-A566



Sanborn® Library search results  
Certification # B34A-4F0D-A566

**Maps Provided:**

1933  
1914

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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# 1933 Certified Sanborn Map

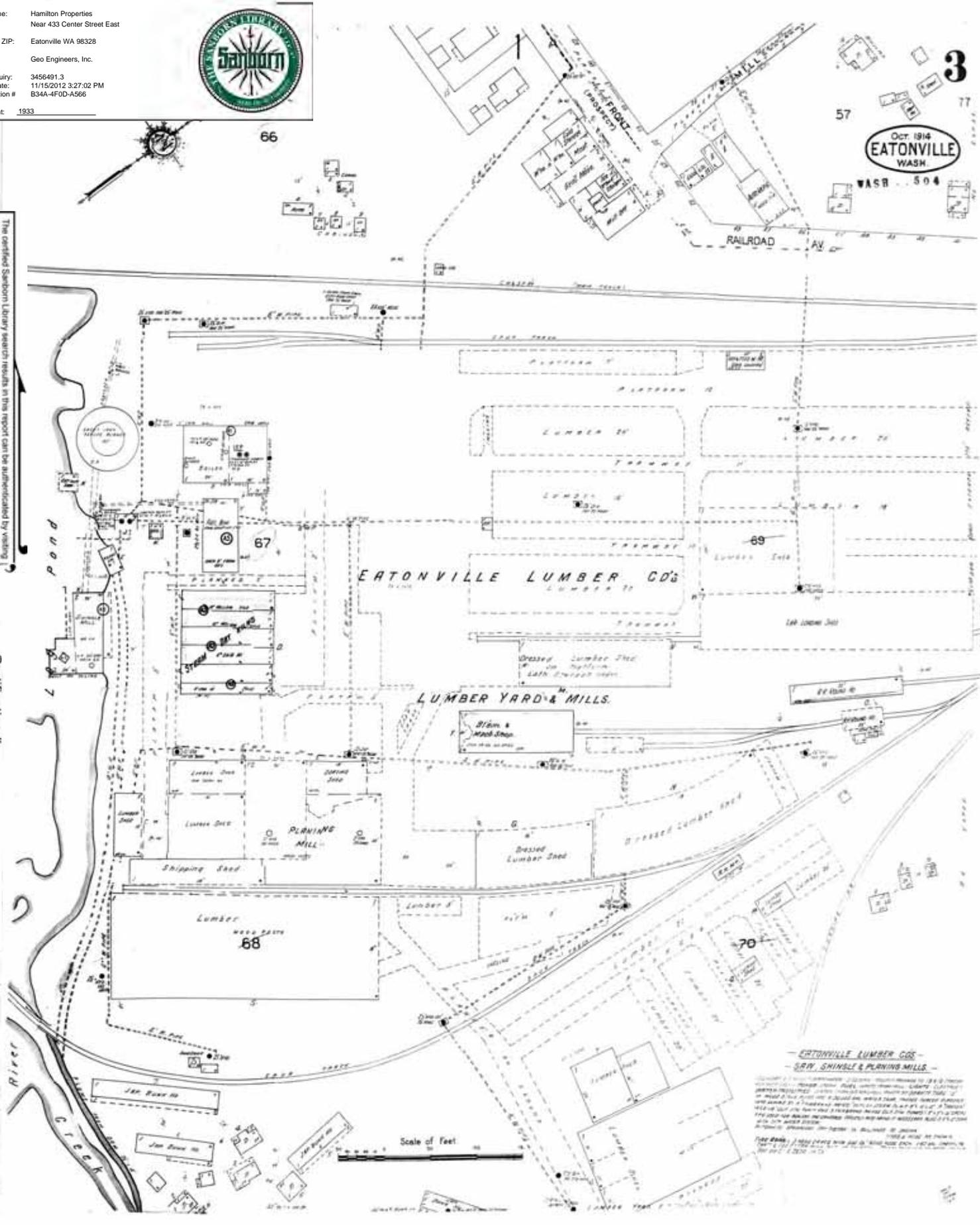
Site Name: Hamilton Properties  
 Address: Near 433 Center Street East  
 City, ST, ZIP: Eatonville WA 98328  
 Client: Geo Engineers, Inc.  
 EDR Inquiry: 3456491.3  
 Order Date: 11/15/2012 3:27:02 PM  
 Certification #: B34A-4FOD-A566  
 Copyright: 1933



3  
 57 77  
 Oct. 1914  
**EATONVILLE**  
 WASH.  
 WASH. 504

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**EATONVILLE LUMBER CO'S -**  
**SHY, SHINGLE & PLANING MILLS -**

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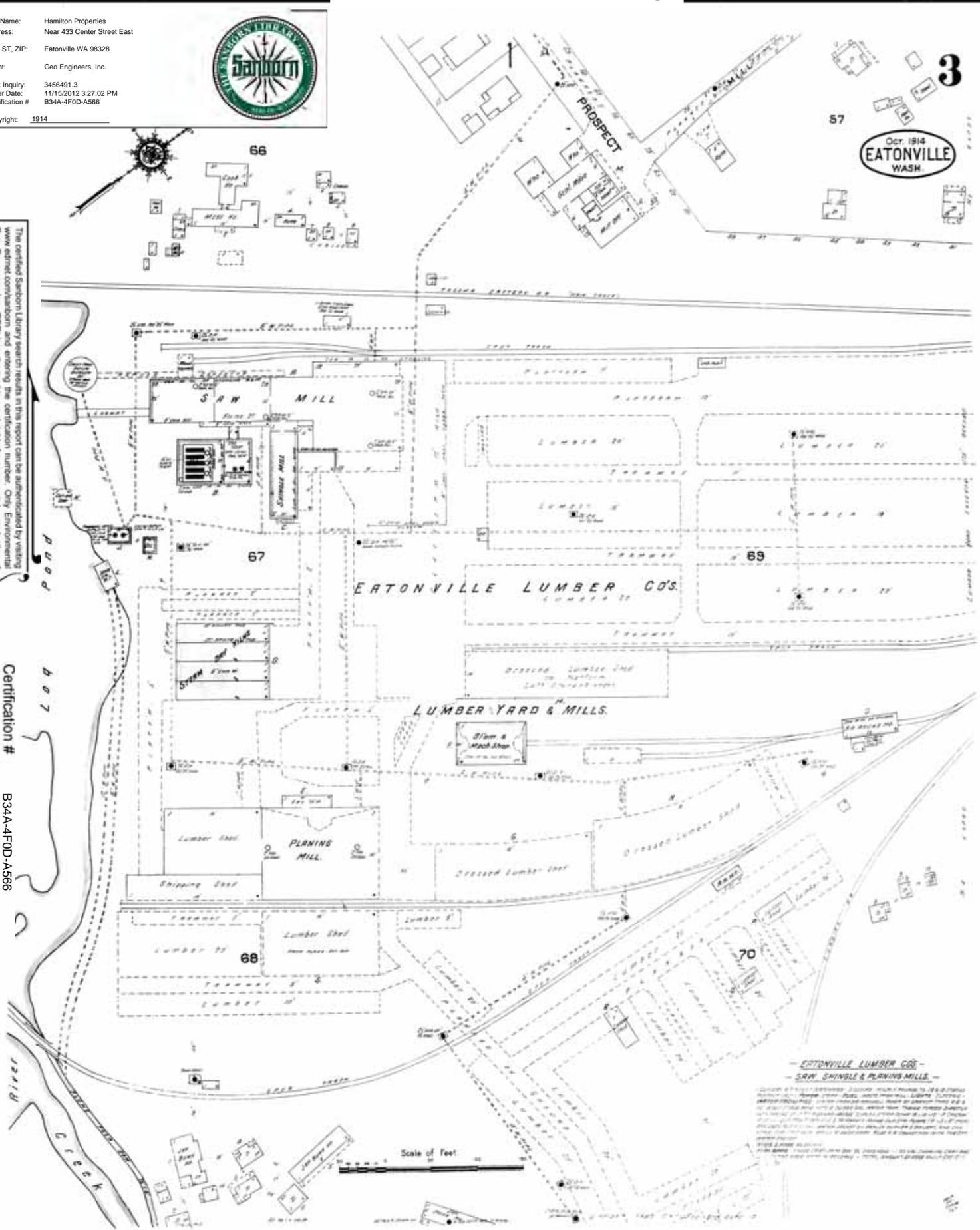
# 1914 Certified Sanborn Map

Site Name: Hamilton Properties  
 Address: Near 433 Center Street East  
 City, ST, ZIP: Eatonville WA 98328  
 Client: Geo Engineers, Inc.  
 EDR Inquiry: 3456491.3  
 Order Date: 11/15/2012 3:27:02 PM  
 Certification #: B34A-4FOD-A566  
 Copyright: 1914



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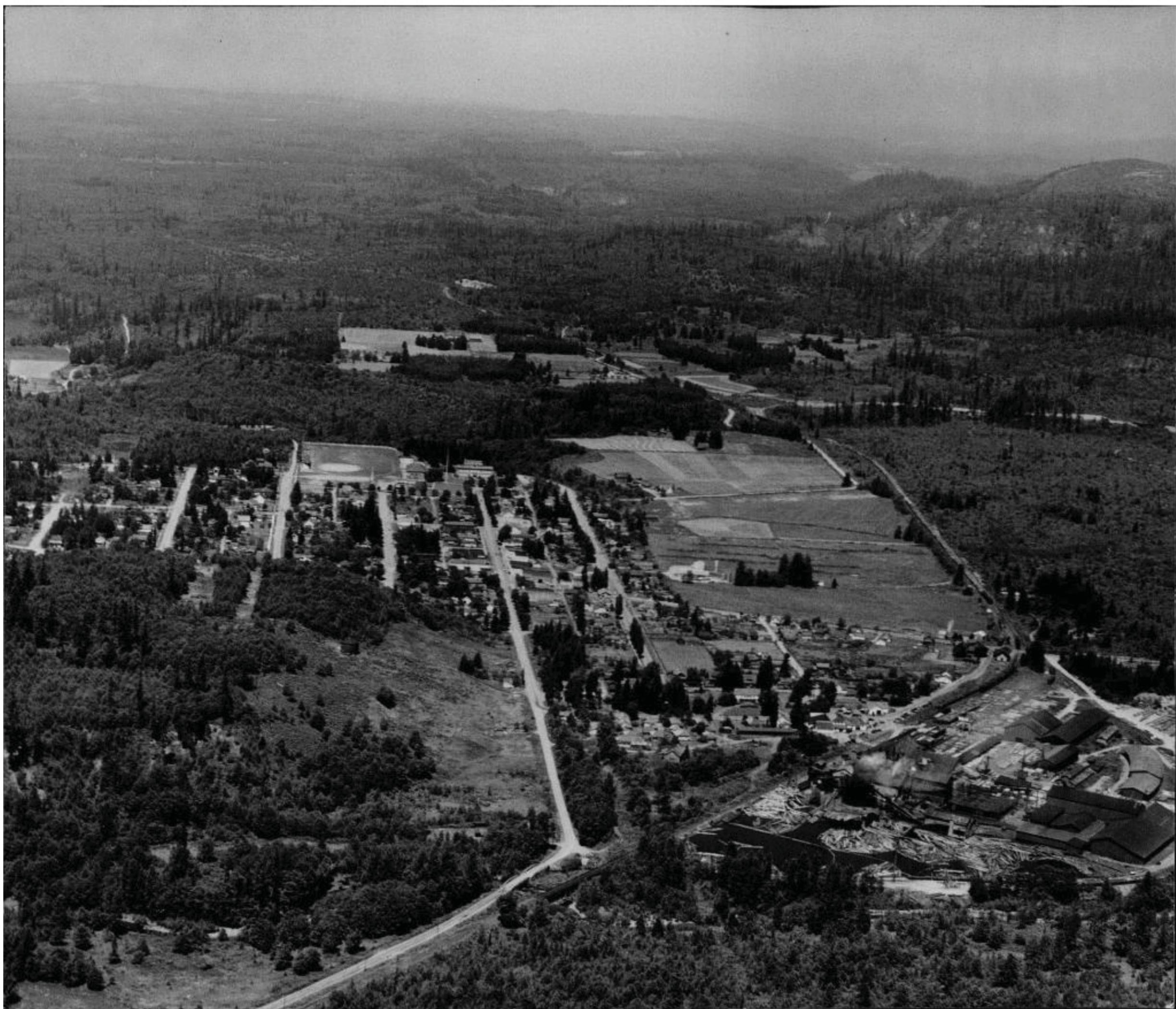
Certification # B34A-4FOD-A566



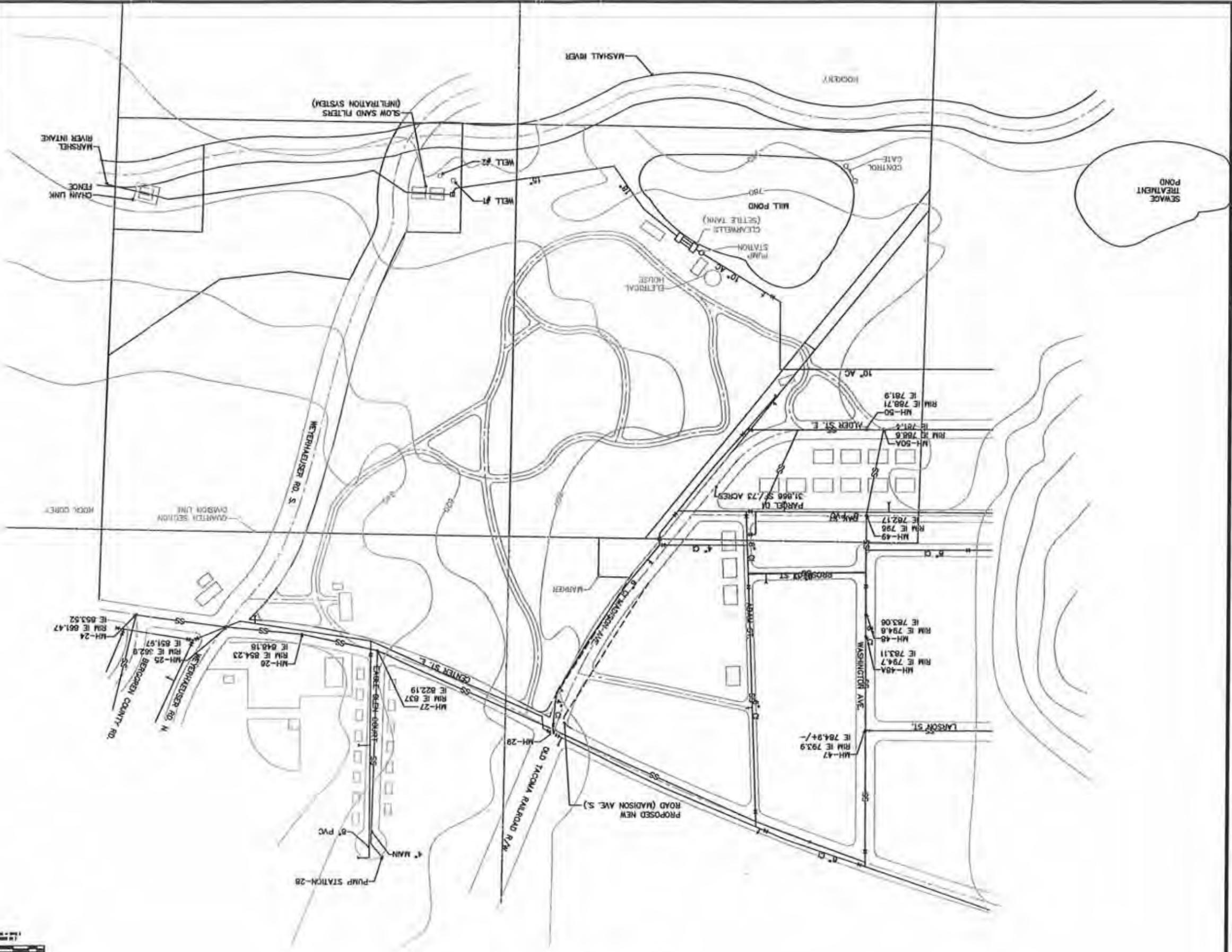
OCT. 1914  
**EATONVILLE**  
 WASH.

**ERTONVILLE LUMBER CO'S -**  
**S&W SHINGLE & PLANNING MILLS**

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# HAMILTON 60 ACRE SITE EXISTING UTILITIES



Hamilton 60 Acre Site  
Existing Utilities

Everett, WA

Joe and Joan Hamilton

P. O. Box 337  
Everett, WA 98208

**Abbey Road**

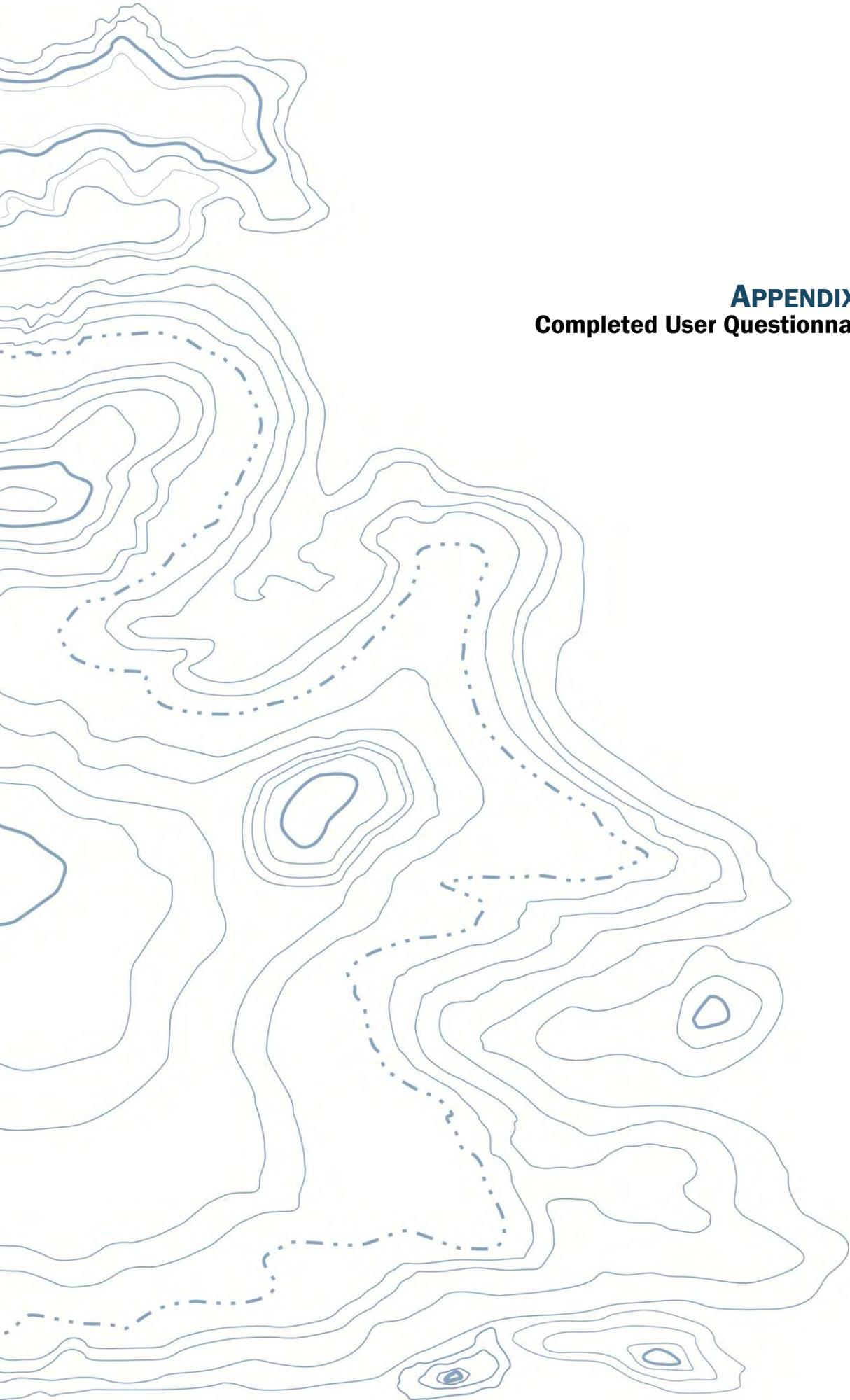
Abbey Road Group LLC  
Land Development Company

1001 SIAW ROAD, PLYMOUTH, WA 98372  
P. O. Box 207, Puyallup, WA 98371  
(253) 435-3696, Fax (253) 936-2366

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**APPENDIX F**  
**Completed User Questionnaire**

**PHASE I ESA USER QUESTIONNAIRE – HAMILTON PROPERTY, EATONVILLE, WASHINGTON**

To enable us to complete the Phase I ESA and for the user of this report to be potentially eligible for one or more of the federal landowner liability protections, please complete the questionnaire below and provide the additional information requested.

1. Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal and state or local law?

YES     NO     DON'T KNOW    Explain: \_\_\_\_\_

2. Are you aware of any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

YES     NO     DON'T KNOW    Explain: \_\_\_\_\_

3. As the user of this Phase I ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

YES     NO     DON'T KNOW    Explain: \_\_\_\_\_

4. Does the purchase price being paid for this property reasonable reflect the fair market value of the property?

YES     NO     DON'T KNOW    Explain: \_\_\_\_\_

If you conclude that there is a difference between the purchase price and fair market value and you answered NO above, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

YES     NO     DON'T KNOW    Explain: \_\_\_\_\_

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help us identify conditions indicative or releases or threatened releases? For example,

Do you know the past uses of the property?

a.  YES     NO     DON'T KNOW    Explain: \_\_\_\_\_

Do you know of specific chemicals that are present or once were present on the property?

b.  YES     NO     DON'T KNOW    Explain: \_\_\_\_\_

Do you know of spills or other chemical releases that have taken place at or near the property?

YES     NO     DON'T KNOW    Explain: *There was a underground tank of some type on the property to the north that has been a problem related to groundwater*

Do you know of any environmental cleanups that have taken place at or near the property?

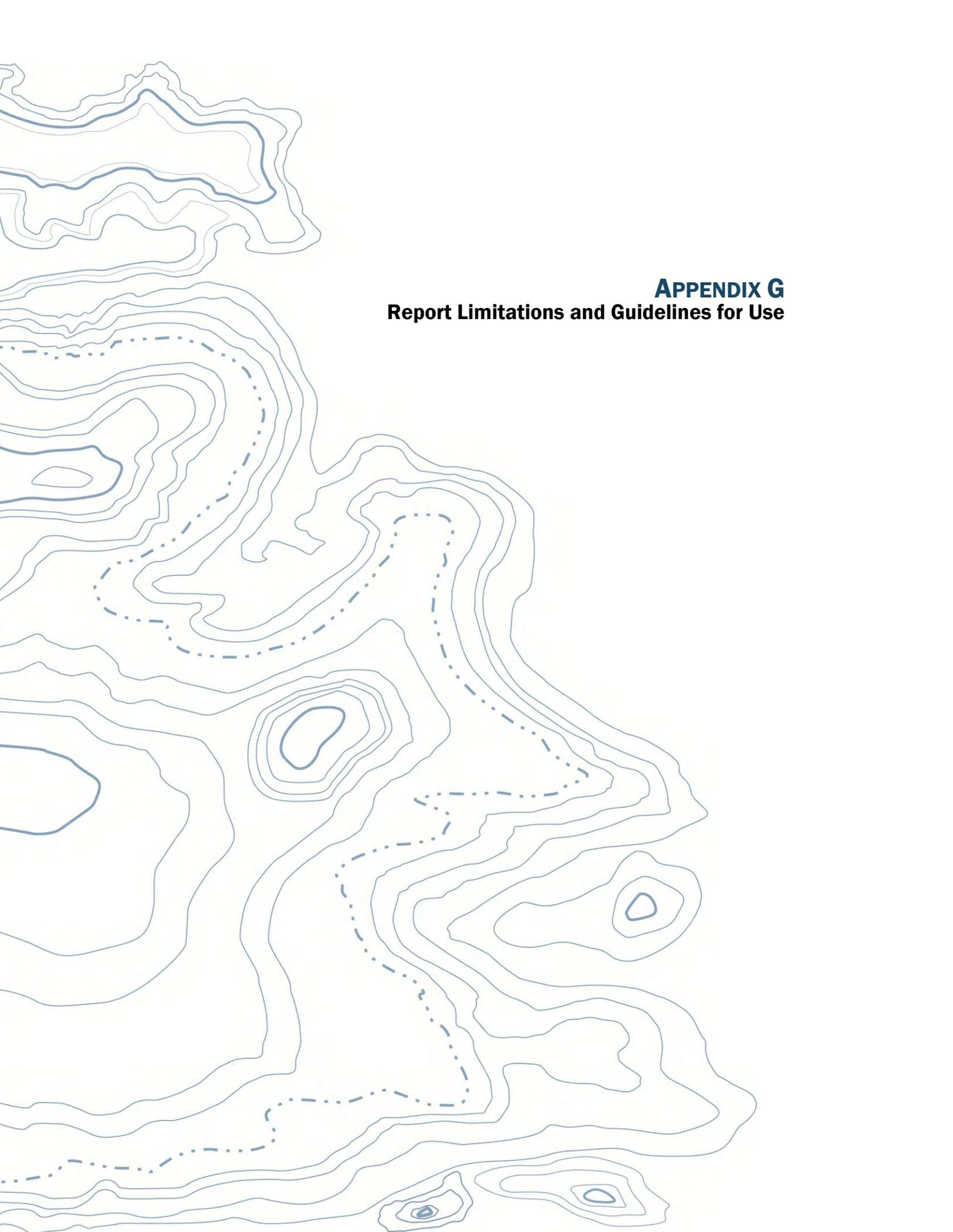


- c.  YES  NO  DON'T KNOW Explain: *I know there was some clean-up on the property to the north but I do not have details.*
6. Based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?
- YES  NO  DON'T KNOW Explain: *The owners have indicated contamination and clean-up on adjacent lands. There is no indication that the subject property will require cleanup.*

### LIST OF REQUESTED INFORMATION, IF AVAILABLE

- Names and phone numbers of key individuals with knowledge of Site use history.
- A map showing the boundaries of the subject Site.
- Tax ID numbers for parcels included within the Site.
- Copies of any past environmental Site assessment and/or audit reports or risk assessment studies.
- Environmental permits.
- Registrations for underground and above-ground storage tanks (if any).
- Material data safety sheets for hazardous substances used or stored on Site (if any).
- Community right-to-know plans pertaining to the Site.
- Safety plans pertaining to on-site facilities.
- Reports regarding geotechnical and/or hydrogeologic conditions.
- 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.
- Recorded Activity Use Limitations (AULs).
- Title Report.





**APPENDIX G**  
**Report Limitations and Guidelines for Use**

## **APPENDIX G REPORT LIMITATIONS AND GUIDELINES FOR USE**

This appendix provides information to help you manage your risks with respect to the use of this report.

### **Read These Provisions Closely**

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or site.

### **Environmental Services Are Performed for Specific Purposes, Persons and Projects**

GeoEngineers has performed this ESA of the property consisting of the Hamilton Properties at south of 433 Center Street East in Eatonville, Washington in general accordance with the scope and limitations of our scope of work dated November 13, 2012, ASTM E 1527-05, Standard Practice for Phase I ESAs, and EPA’s Federal Standard 40 CFR Part 312 “Standards and Practices for All Appropriate Inquiries (AAI).” This report has been prepared for the exclusive use of Nisqually Land Trust. This report is not intended for use by others, and the information contained herein is not applicable to other properties.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project property. This report should not be applied for any purpose or project except the one originally contemplated.

### **This Environmental Report Is Based on a Unique Set of Project-Specific Factors**

This report has been prepared for the Hamilton Properties at South of 433 Center Street East in Eatonville, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific property explored, or
- completed before important project changes were made.

If important changes are made to the project or subject property after the date of this report, GeoEngineers should be retained to review our interpretations and recommendations and to provide written modifications or confirmation, as appropriate.

### **Reliance Conditions for Third Parties**

Our report was prepared for the exclusive use of our Client. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted environmental practices in this area at the time this report was prepared.

### **Historical Information Provided by Others**

GeoEngineers makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others. The information presented in this report is based on the above-described research and a single recent site visit. GeoEngineers has relied upon information provided by others in our description of historical conditions and in our review of regulatory databases and files. The available data do not provide definitive information with regard to all past uses, operations or incidents at the subject property or adjacent properties.

### **Uncertainty Remains Even After This ESA Study Is Completed**

No ESA can wholly eliminate uncertainty regarding the potential for recognized environmental conditions (RECs) in connection with a property. Performance of an ESA study is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property. There is always a potential that areas with contamination that were not identified during this Phase I ESA exist at the subject property or in the study area. Further evaluation of such potential would require additional research, subsurface exploration, sampling and/or testing.

### **Environmental Regulations Are Always Evolving**

Some substances may be present in the vicinity of the subject property in quantities or under conditions that may have led, or may lead, to contamination of the subject property, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

### **Property Conditions Can Change**

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time (for example, a Phase I ESA report is typically applicable for 180 days), by events such as a change in property use or occupancy, or by natural events, such as floods, earthquakes, slope instability or groundwater fluctuations. If more than six months have passed since issuance of our report or work product, or if any of the described events may have occurred, please contact GeoEngineers before applying

this report so that we may evaluate whether changed conditions affect the continued reliability or applicability of our conclusions and recommendations.

### **Geotechnical, Geologic and Environmental Reports Should Not Be Interchanged**

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

### **Biological Pollutants**

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

If Nisqually Land Trust desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.