

***FINAL***

**ENVIRONMENTAL CONDITION OF  
PROPERTY REPORT**

**PFC DANIEL L. WAGENAAR  
U.S. ARMY RESERVE CENTER WA024  
1011 EAST AINSWORTH STREET  
PASCO, WA 99301**

***Prepared For:***

**U.S. Army Corps of Engineers – Louisville District  
Engineering Division – Environmental Engineering Branch  
600 Dr. Martin Luther King, Jr. Place  
Louisville, Kentucky 40202-2232**

**MARCH 2007**

## CERTIFICATION

All information/documentation provided accurately reflects the environmental condition of the property. This ECP Report is in general accordance with the U.S. Department of Defense (DOD) requirements for completion of an Environmental Condition of Property (ECP) Report.

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**STEPHEN A. RIVERA**  
**Environmental Division ARIM**  
**Chief Environmental Division**  
**70th Regional Readiness Command**

**DATE**

The undersigned certifies the contents of this report are in general accordance with DoD policies for the completion of an ECP.



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**LENARD GUNNELL, P.G.**  
**Project Geologist**  
**U.S. Army Corps of Engineers**

**DATE**

## EXECUTIVE SUMMARY

Lawhon & Associates, Inc. (Lawhon), in conjunction with Fuller, Mossbarger, Scott and May Engineers, Inc. (FMSM), under contract to the U.S. Army Corps of Engineers (USACE), Louisville District, has prepared this Environmental Condition of Property (ECP) Report for the PFC Daniel L. Wagenaar U.S. Army Reserve (USAR) Center (Facility ID WA024), hereafter referred to as the "Site" or "USAR Center." The Site is located at 1011 East Ainsworth Street, Pasco, Franklin County, Washington, and encompasses approximately 7 acres.

This ECP Report was prepared in conformance with primary Department of Defense and Army guidance, the Department of Defense's Base Redevelopment and Realignment Manual, DoD 4165.77-M (BRRM), Army regulations and the American Society for Testing and Materials (ASTM) Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys*, as secondary guidance when it was not inconsistent with the primary guidance.

This ECP Report details the history of the property, including the U.S. Army Reserve and any prior tenant uses of the Site and the resulting environmental condition of the property.

The USAR Center facility is situated on approximately 7 acres of land, located in a commercial and light industrial area, in the southeastern portion of the City of Pasco, Washington. The Site consists of two permanent buildings: a 16,937 square-foot administration building and a 1,800 square-foot Organizational Maintenance Shop (OMS). The USAR Center is currently occupied by the 737<sup>th</sup> Transportation Company (out of Yakima, WA) and the 104<sup>th</sup> Division Drill Sergeants.

Based on a review of aerial photographs dating back to 1978 and U.S. Geological Survey (USGS) topographic maps dating back to 1917, the Site has served as a USAR Center since 1974. The administration building was constructed in 1974, and the OMS was constructed in 2002. The land and buildings are owned by the U.S. Government.

Areas of potential environmental concern were reviewed and Lawhon identified petroleum impacts relating to fuel pipelines that cross the Site. A breach in the 1960's released an unknown quantity of diesel and/or gasoline to the subsurface. Sampling performed in 2004 detected petroleum hydrocarbons in both the soil and groundwater. Concentrations in soil samples were below Washington State Department of Ecology, Model Toxics Control Act (MTCA) Method A cleanup levels. Groundwater samples contained concentrations above the MTCA Method B cleanup levels. Groundwater samples from two down gradient monitoring wells did not contain detectable concentrations indicating that off-site migration has not occurred. Groundwater monitoring is currently in progress. In addition, a burrowing owl nest (burrow) is located on the Site. It is unknown if the nest site is currently active. The burrowing owl is both a

federal candidate species and a state candidate species (based on available [2004] data) and protected as a migratory bird under Executive Order 13186.

In accordance with Department of Defense policy defining the classifications (See Deputy Under Secretary of Defense Goodman Memorandum dated 21 October 1996), the Property has been classified as Category 2. This classification does not include categorizing the property based on *de minimis* conditions that generally do not present material risk of harm to the 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.

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## LIST OF ACRONYMS

ACM	Asbestos Containing Material
AR	Army Regulation
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
BRAC	Base Realignment and Closure
BRRM	Base Redevelopment and Realignment Manual
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CERFA	Community Environmental Response Facilitation Act
CFR	Code of Federal Regulations
DOD	Department of Defense
DRMO	Defense Reutilization Marketing Office
E2M	Engineering – Environmental Management, Inc.
Ecology	Washington State Department of the Ecology
ECP	Environmental Condition of Property
EDR	Environmental Data Resources, Inc.
FEMA	Federal Emergency Management Agency
FFR	Force Feasibility Review
FMSM	Fuller, Mossbarger, Scott and May Engineers, Inc.
kg	Kilogram
Lawhon	Lawhon & Associates, Inc.
LBP	Lead Based Paint

LUST	Leaking Underground Storage Tank
MTCA	Model Toxics Control Act
MEC	Munitions and Explosives of Concern
MEP	Military Equipment Parking
NPL	National Priorities List
OMS	Organizational Maintenance Shop
PCB	Polychlorinated Biphenyl
pCi/l	Pico Curies per Liter of Air
POV	Privately Owned Vehicle
RCRA	Resource Conservation and Recovery Act
RQ	Reportable Quantity
RRC	Regional Readiness Command
Shaw	Shaw Environmental & Infrastructure, Inc.
Site	U.S. Army Reserve Center WA024
STATSGO	State Soil Geographic Database
TSCA	Toxic Substances Control Act
TSD	Treatment, Storage, or Disposal
USACE	United States Army Corps of Engineers
USAR	United States Army Reserve
USATHAMA	States Army Toxic and Hazardous Materials Agency
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey

UST            Underground Storage Tank  
WDFW        Washington Department of Fish and Wildlife  
WDNR        Washington Department of Natural Resources

## **1.0 INTRODUCTION**

Lawhon & Associates, Inc., Columbus, Ohio was authorized to prepare an Environmental Condition of Property report for the PFC Daniel L. Wagenaar U.S. Army Reserve Center WA024. The facility is located at 1011 East Ainsworth Street, Pasco, Franklin County, Washington 99301, hereafter referred to as the "Site" or "USAR Center". In support of the ECP Report, a visual reconnaissance of the Site was conducted on September 11, 2006. The purpose of the visit was to visually obtain information indicating the environmental condition of property at the Site.

### **1.1 PURPOSE OF ENVIRONMENTAL CONDITION OF PROPERTY REPORT**

The Military Department with real property accountability shall assess, determine and document the environmental condition of all transferable property in an ECP Report. This ECP Report is based on readily available information. Pursuant to the Department of Defense's policy, set forth in the Base Redevelopment and Realignment Manual (DoD 4165.66-M, March 1, 2006) Section C8.3 (BRRM), the primary purposes of the ECP Report include the following:

- Provide the Army with information it may use to make disposal decisions;
- Provide the public with information relative to the environmental condition of the property;
- Assist in community planning for the reuse of Base Realignment and Closure (BRAC) property;
- Assist Federal agencies during the property screening process;
- Provide information for prospective buyers;
- Assist prospective new owners in meeting the requirements under EPA's "All Appropriate Inquiry" regulations;
- Provide information about completed remedial and corrective actions at the property;
- Assist in determining appropriate responsibilities, asset valuation, and liabilities with other parties to a transaction.

The ECP Report contains the information required to comply with the provisions of 40 Code of Federal Regulations (CFR) Part 373, which require that a notice accompany contracts for the sale of, and deeds entered into, for the transfer of federal property on which any hazardous substance was stored, released or disposed of. The

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 120(h) stipulates that a notice is required if certain quantities of designated hazardous substances have been stored on the property for one year or more – specifically, quantities exceeding 1,000 kilograms or the reportable quantity, whichever is greater, of the substances specified in 40 CFR 302.4 or one kilogram of acutely hazardous waste as defined in 40 CFR 261.30. A notice is also required if hazardous substances have been disposed of or released on the property in an amount greater than or equal to the reportable quantity. Army Regulation (AR) 200-1 requires that the ECP Report address asbestos, lead-based paint, radon and other substances potentially hazardous to human health.

This ECP Report used the American Society for Testing and materials (ASTM) Designation D 6008-96 (2005), *Standard Practice for Conducting Environmental Baseline Surveys* as a guideline when not inconsistent with the BRRM, CERCLA § 120, Army regulations and other applicable Army guidance.

## **1.2 SCOPE OF SERVICES**

This ECP report covers the 7-acre PFC Daniel L. Wagenaar USAR Center located at 1011 East Ainsworth Street, Pasco, Franklin County, Washington 99301. The property is located in the southeast part of the City of Pasco, Washington, approximately 1,000 feet north of the Columbia River. It is bounded by South Maitland Avenue on the west, East Ainsworth Avenue on the south, and open space on the north and east. Site maps and aerial photographs are provided in Appendix A. Appendix B provides photographs taken during the September 2006 Site visit. Appendix C provides a historic property search report, a chain of title report and an environmental lien report. Historical environmental documents and reports are provided in Appendix D, while Appendix E contains the Environmental Data Resources, Inc. (EDR) reports.

This ECP report classifies the property into one of seven DoD Environmental ECP categories as defined by the Deputy Under Secretary of Defense S. Goodman Memorandum, “Clarification of ‘Uncontaminated’ Environmental Condition of Property at BRAC Installations” (21 October 1996). The property classification categories are as follows:

- Category 1 – Areas where no release or disposal of hazardous substances or petroleum products has occurred (including no migration of these substances from adjacent areas).
- Category 2 – Areas where only the release or disposal of petroleum products has occurred.
- Category 3 – Areas where release, disposal, and/or migration of hazardous substances has occurred, but at concentrations that do not require a removal or remedial response.

- Category 4 – Areas where release, disposal, and/or migration of hazardous substances has occurred, and all removal or remedial actions to protect human health and the environment have been taken.
- Category 5 – Areas where release, disposal, and/or migration of hazardous substances has occurred, and removal or remedial actions are under way, but all required remedial actions have not yet been taken.
- Category 6 – Areas where release, disposal, and/or migration of hazardous substances has occurred, but required actions have not yet been implemented.
- Category 7 – Areas that are not evaluated or require additional evaluation.

## 2.0 SITE LOCATION AND PHYSICAL DESCRIPTION

### 2.1 SITE LOCATION

The USAR Center is located in the southwest portion of Franklin County, Washington, within the city limits of Pasco, Washington. The Site is located in a primarily commercial and light industrial area, with the dominant property owners in the area being the Port of Pasco and the City of Pasco. Figure 1 in Appendix A provides a general site location map.

### 2.2 ASSET INFORMATION

Facility Name and Address:	PFC Daniel L. Wagenaar U.S. Army Reserve Center WA024 1011 East Ainsworth Street Pasco, Washington 99301
Property Owner:	The land and buildings are owned by the United States Government
Date of Ownership:	May 29, 1943
Current Occupant:	737 <sup>th</sup> Transportation Company (out of Yakima, WA) and the 104 <sup>th</sup> Division Drill Sergeants
Zoning:	Port of Pasco Commercial District 1
County, State:	Franklin County, Washington
USGS Quadrangle(s):	Pasco, Washington
Section/Township/Range:	Section 32, Township 9 North, Range 30 East
Latitude/Longitude:	46° 13' 10.2" N; 119° 4' 59.5" W
Legal Description:	Being that parcel or tract of land, situated and lying in Section 32, Township 9 North, Range 30 East of the Willamette Meridian in the City of Pasco, Franklin County State of Washington, Parcel No. 112-353-230.

## 2.3 PHYSICAL DESCRIPTION

The USAR Center is situated on approximately 7 acres of land with two permanent structures: a 16,932 square-foot administration building and a 1,800 square-foot OMS building. Construction of the administration building occurred in 1974 and construction of the OMS building occurred in 2002. According to a 2005 Polychlorinated Biphenyl (PCB) Containing Equipment Inventory an addition to the administration building was built in 1978, and the facility underwent minor renovations in 2001.

The administration building consists of concrete block walls covered with a brick veneer, while the OMS building is constructed of metal. Both buildings rest upon concrete foundations. The OMS is in a gravel area that can act as a military equipment parking (MEP) area. A privately owned vehicle (POV) parking area is also present at the Site. Photographs 1 and 2 in Appendix B provide views of the POV area. Photographs 3 and 4 in Appendix B provide views of the gravel MEP area. Chain-link security fencing topped with barbed wire encloses the OMS and MEP areas (Photograph 5 in Appendix B), while a shorter chain-link fence, reinforced with wire, surrounds three sides of the administration building (Photograph 6 in Appendix B). Approximately 25% of the Site is covered by impervious surface features (e.g., asphalt parking areas, driveways, concrete walkways, building footprints, etc.). The remaining ground surface is covered by lawn with landscape shrubs and trees (Photograph 7 in Appendix B), gravel (Photograph 8 in Appendix B), and an open space consisting of scrub grasses, sage brush and low-growing vegetation adapted to the dry environment (Photograph 9 in Appendix B). Topographically, the Site is relatively flat. Figure 2 in Appendix A provides a current plan view layout of the Site. Appendix B provides photographs taken during the September 2006 site visit.

The USAR Center administration building is an irregular-shaped one-story structure that houses an administration section, and a drill hall section. Photographs 10 and 11 in Appendix B provide front views (south side) of the exterior of the building. Photograph 12 in Appendix B provides a view of the west side exterior of the building, and Photograph 13 in Appendix B provides an east side view of the exterior of the building. Photograph 14 in Appendix B provides a view of the north exterior of the building showing a small loading dock area in the corner of the structure. The interior of the administration building consists of office space, classrooms, kitchen area, storage, and a drill hall. A locked weapons vault is located within the administration building. Site personnel stated that no ammunition is stored or located at the Site. Photographs 15 and 16 in Appendix B provide interior views of the front entry and hall in the administration building. Photograph 17 in Appendix B shows a typical classroom area, while photograph 18 shows a typical office area. Photograph 19 in Appendix B shows the former indoor firing range area that now acts as a weight and physical fitness training area. Photograph 20 in Appendix B shows pits in the block wall at the target end of the former indoor firing range. Photographs 21 - 23 in Appendix B show the drill

hall and storage cages with company equipment which are located around the outside of the drill hall. Photographs of the kitchen area were not taken due to inadequate lighting, however, according to site personnel the kitchen has not been used for a number of years. Photograph 24 in Appendix B shows the weapons vault door. Photograph 25 in Appendix B shows the boiler, and Photograph 26 in Appendix B shows the air conditioner unit. Figure 3 in Appendix A provides a layout of the interior of the administration building.

The OMS building is a one-story, rectangular metal structure, with one open space, and overhead metal, retractable doors at opposite ends of the building. Photographs 27 - 29 in Appendix B show exterior views of the OMS building. The building was essentially empty at the time of the September 2006 site visit, with only one desk in a corner and one flammable cabinet located against one wall. Photographs 30 - 33 in Appendix B show the interior of the OMS building. Figure 4 in Appendix A provides a layout of the interior of the OMS building.

Three interior floor drains are located in the administration building. Two are in the kitchen area, and one is in the mechanical room. The Site contains a can wash area and grease trap associated with the kitchen which is no longer in use (Photograph 34 in Appendix B). Two exterior surface storm drains, 4 dry wells, and an infiltration pond provide site drainage. Photograph 35 in Appendix B shows the grass-bottom infiltration pond located east of the POV parking area.

According to a 2005 Survey of Drains, Pollution Control Equipment, and Discharge Points report by ICI, LLC, the interior drains are tied into the City's sanitary sewer system. The report states that an exterior drain adjacent to the can wash area just north of the administration building discharges into the grease trap, which in turn discharges to the sanitary sewer system. The other exterior drain discharges into one of the dry wells. All four dry wells discharge into the ground through infiltration. The infiltration pond, located east of the POV parking area, was constructed in 1993 to improve drainage from the parking area. One of the dry wells was added at this time to handle any overflow from the infiltration pond.

Five fuel trucks were located in the gravel MEP area during the September 2006 site visit (Photographs 3 and 4 in Appendix B). According to site personnel, the tankers are emptied, purged and washed off site. Only empty, clean vehicles are temporarily stored at the Site.

## **2.4 SITE HYDROLOGY AND GEOLOGY**

### **2.4.1 Surface Water Characteristics**

Figure 5 in Appendix A provides a portion of the 1992 Pasco, Washington, USGS topographic map which includes the Site. As shown, the Site is situated at an elevation

of approximately 369 feet above mean sea level and is relatively flat. In the immediate vicinity of the Site, the land surface gently slopes south towards the Columbia River. The storm water system at this facility consists of 4 dry wells which discharge into the ground through infiltration. An infiltration pond, located east of the POV parking area, was constructed in 1993 to improve drainage from the parking area. Additional storm water runoff at the Site sheet flows to adjacent roadside drainages south and west of the facility. The ultimate discharge point is not known.

No surface water features are located at the Site. The Columbia River is located approximately 1,000 feet south of the Site, and is the closest major surface water feature. The Columbia River ultimately discharges to the Pacific Ocean on the Washington and Oregon coast.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel 5300440825B, the Site is not included in either the 100-year floodplain elevation or the 500-year floodplain elevation. Figure 6 in Appendix A provides a map depicting the extent of the nearest 100-year and 500-year floodplain in relation to the Site.

According to the National Wetland Inventory (Figure 6 in Appendix A), no wetland areas are located at the Site. The nearest wetland areas from the National Wetland Inventory occur approximately 1,000 feet south of the Site adjacent to the Columbia River.

#### **2.4.2 Geology/Hydrogeological Characteristics**

According to the Washington State Department of Natural Resources Geology of Washington website (<http://www.dnr.wa.gov/geology/columbia.htm>), the Pasco area is situated in the Columbia Basin physiographic region. The Columbia Basin, also known as the Columbia Plateau, is a vast area in eastern Washington, southwestern Idaho, and northern Oregon. The physiographic province is characterized by incised rivers, extensive plateaus, and anticlinal ridges rising to 4,000 feet above sea level. The region is underlain by Miocene Columbia River Basalt Group rocks and interbedded Neogene terrestrial sediments.

According to information acquired from the Soil Conservation Service's State Soil Geographic Database (STATSGO) for Franklin County, Washington, specific types of soil at the Site are from the Quincy Series. The soil does not meet the requirements for a hydric soil.

The surface soils are generally fine sand and very fine sandy loams. These soil types have high infiltration rates. The soils are generally well drained to excessively drained. Deeper soils tend to be gravelly to fine sand. In a typical profile, the surface layer is approximately 15 inches thick and is a sand or silty sand. The subsoil is approximately 45 inches thick and generally consists of coarse-grained material.

Shallow soils in and around the Site are recent Quaternary alluvium, most likely sand and gravel stream deposits from the Columbia River, while deeper deposits may be Pasco Gravels associated with outburst flood deposits of ancient glacial Lake Missoula.

According to monitoring wells present on the Site, groundwater occurs at a depth of approximately 26 feet below ground surface and flows to the southwest, towards the Columbia River.

## **2.5 SITE UTILITIES**

**Water Service** – The City of Pasco provides potable water service to the Site.

**Sanitary Sewer System** – The City of Pasco provides sanitary sewer service to the Site. The primary source of wastewater that is directed to the city sewer system includes non-process wastewater (bathrooms, sinks, etc.).

**Gas & Electric** – Franklin Public Utility District provides electric service to the Site. Gas service is provided by Cascade Natural Gas.

## **2.6 WATER SUPPLY WELLS & SEPTIC SYSTEMS**

Based upon a review of available historical site and agency records and interviews with site personnel, neither a water supply well nor a septic system is or was located at the Site.

A search of federal and state water well databases identified fourteen wells located within a 1 mile radius of the Site. None of the wells are directly adjacent to the Site, and none of the wells are within ½ mile of the Site. Five of the identified wells are intakes for public water use from the Columbia River. The purpose of the other wells is not specified, other than “groundwater other than spring” and, “single well, other than collector or Ranney type”. No information regarding contamination of the wells is presented in the state and federal databases presented in the EDR report in Appendix E.

## 3.0 SITE HISTORY

### 3.1 HISTORY OF OWNERSHIP

Land titles for the Site were reviewed back to 1906. Appendix C contains Chain of Title and Environmental Lien reports completed for the Site. The Environmental Lien report did not identify any environmental liens against the USAR Center property. According to the Chain of Title report, a declaration of taking by the United States of America from Franklin County, Washington was recorded on May 29, 1943. No coverage of historical Sanborn fire insurance maps was available from EDR.

Available business directories including City, cross-reference, and telephone directories were reviewed, if available, at approximately five-year intervals for the years spanning 1965 through 2005. According to a City Directory provided by EDR and dated July 18, 2006, the address of the USAR Center was first listed in the research source (Polk's City Directory) in 1989 as US Army Reserves. The Site is also listed in the 1993 and 2005 Polk's City Directory as US Army Reserves, and Army Reserve Recruiting, respectively. No listings were found for the years 1965, 1972, 1977, 1983, and 1999. A copy of the City Directory report is included in Appendix E.

### 3.2 PAST USES AND OPERATIONS

In 1943, the U.S. Government acquired 7 acres of land from Franklin County, Washington. Construction of the administration building occurred in 1974, and construction of the OMS building occurred in 2002. Personnel interviews suggest that the Site was formerly vacant prior to the construction of the USAR Center; however, historic USGS topographic maps suggest there was a building at the site prior to the current buildings. The Site has served as a reserve and mobilization center for the U.S. Army Reserve since the current administration building was constructed in 1974.

The USAR Center is currently occupied by the 737<sup>th</sup> Transportation Company (out of Yakima, WA) and the 104<sup>th</sup> Division Drill Sergeants. Historically, the Site primarily functioned as an administrative, logistical, and educational facility. According to site personnel, no vehicle maintenance activities occurred in the OMS, other than very basic vehicle maintenance activities (topping off oil, antifreeze, filling window washer fluid, etc.).

The Site was historically used by reservists for drill activities on various weekends. The 737<sup>th</sup> is a fuel transportation company out of Yakima, Washington; however, no fueling activities occur on the Site.

The Site was the headquarters for the Second Brigade, 104th Division for the Army Reserve commanded by Col. Ray Reynolds of Pasco, when it was dedicated to Pfc. Daniel L. Wagenaar at its opening (<http://www.facesfromthewall.com/1969jul.html>).

Currently and historically, the OMS building has been used for limited basic maintenance activities on military equipment, mostly checking vehicle fluids such as motor oil, water, and antifreeze. Equipment requiring other maintenance or a major overhaul is sent offsite. No major vehicle or equipment overhauls have been performed at the facility.

No vehicle washing is done, or has historically been done at the Site. According to Site personnel, fuel tank trucks present at the Site are emptied, purged and washed offsite. To the best of their knowledge it has always been this way for the transportation company. No underground storage tanks (USTs) or aboveground storage tanks (ASTs) are currently or have historically been present on the Site.

Historic documents, personnel interviews and historical aerial photographs and topographic maps were the primary sources of information on the past use and operations at the Site. Figure 5 and Figures 7 - 12 in Appendix A provide USGS topographical maps and aerial views of the Site and surrounding area in 1917, 1964, 1973, 1978, 1982, 1991, and 1992. Figure 13 is a 2004 aerial and map view of the Site from the Franklin County Assessor's website (<http://www.co.franklin.wa.us/assessor/>).

The 1917 USGS topographical map (Figure 7, Appendix A) is at a scale that does not show the Site, however, the general undeveloped nature surrounding Pasco suggests that limited development had occurred in the vicinity of the Site.

The 1964 USGS topographical map (Figure 8, Appendix A) shows the Site occupied by a building different in configuration than the current structure. It is unknown what this building was. The Port of Pasco – Big Pasco Industrial Center east of the Site has begun development. North and south of the site appear relatively undeveloped. The Pasco Public Works waste water treatment facility is present northwest of the Site.

The 1973 USGS topographical map (Figure 9, Appendix A) shows little change from the 1964 USGS map.

The 1978 aerial photograph (Figure 10 in Appendix A) shows that the administration building is present at the Site in its current configuration. Also shown on the aerial photograph are residences south of the site across East Ainsworth Street, the Pasco Public Works facility northwest of the Site, and Tommy's Auto Wrecking, east of the Site. Also noteworthy is the fact that Maitland and Oregon Avenues appear to not yet been constructed (refer to Figure 12 in Appendix A).

The 1982 aerial photograph (Figure 11, Appendix A) clearly shows that Maitland Avenue has been extended south to East Ainsworth Street. Two new buildings are present south and southwest of the Site. These currently house the Port of Pasco Administration offices and the Safety Kleen facility. Oregon Avenue has not yet been constructed.

The 1991 aerial photograph and the 1992 topographic map (Figures 12 and 5 in Appendix A) show essentially the same development. Oregon Avenue has been constructed east of the Site separating the existing vacant land directly east of the Site and Tommy's Auto Wrecking. A small gas station (Wondrack Distributing) has been constructed on the northwest corner of Oregon Avenue and East Ainsworth. This facility is the closest structure east of the Site. A small commercial building which houses M&M Bolt has been constructed on the south side of East Ainsworth, just west of Oregon Avenue. Development at the Pasco Public Works is basically the same as seen on the 1978 aerial Photograph.

The 2004 aerial photograph (Figure 13, Appendix A) shows the area much as it is in 2006. The 2002 addition of the OMS building at the USAR Center is observed. Additional development at the Pasco Public Works is present, showing additional waste water treatment ponds and facilities. A small structure owned by the City of Pasco is present north of the Site. Much of the land immediately adjacent to the Site remains open space.

### **3.3 PAST USE, STORAGE, DISPOSAL, AND RELEASE OF HAZARDOUS SUBSTANCES**

#### **3.3.1 Past Use and Storage of Hazardous Substances**

Information related to the past use and storage of hazardous substances at the Site was compiled through review of available site records, search of Federal and State environmental databases, and interviews with Army Reserve personnel.

Chemicals formerly used and stored at the Site were associated with vehicle and facility maintenance activities, and janitorial services. Janitorial chemicals and building maintenance-related products were stored in the designated storage area within the janitorial closets located in the administration building. Small amounts of vehicle maintenance products were stored within the designated flammable materials cabinet in the OMS building.

Certain types of chemical products used and stored at the Site would have contained CERCLA hazardous substances and would have been stored on a rotational basis in amounts necessary to support the unit through direct support level maintenance. However, there is no indication that CERCLA hazardous substances were stored at the Site for one year or more in excess of corresponding reportable quantities.

#### **3.3.2 Past Disposal and Release of Hazardous Substances**

Information related to past disposal and potential release of hazardous substances at the Site was compiled through review of available site records, search of Federal and State environmental databases, and interviews with Army Reserve personnel. According to Army Reserve personnel and site records, on-site disposal of hazardous

materials or wastes has not occurred at the Site. No stained soil or stressed vegetation (other than that reflecting very dry weather conditions) was observed during the September 2006 site visit.

### **3.4 PAST PRESENCE OF BULK PETROLEUM STORAGE TANKS**

No petroleum USTs or ASTs are currently or have historically been located on the Site.

### **3.5 REVIEW OF PREVIOUS ENVIRONMENTAL REPORTS**

A review of site records produced several reports pertaining to the Site. The following subsections provide a brief summary of these reports. Copies of the reports are provided in Appendix D.

#### **3.5.1 1989 United States Army Toxic and Hazardous Materials Agency (USATHAMA) Property Report Database Printout**

This short, two page document reports that asbestos may be present in boiler stack insulation, and that groundwater south of facility is contaminated with gasoline from privately owned Pasco Bulk Terminal. No other specific or backup information is presented. In addition, the report does identify the indoor firing range facility in which hazardous materials are present. It states "lead fragments are directed by a baffle system into a sand trap which has not been cleaned out. Concrete floor, no drains, filtered ventilation." The document gives the facility a 0 score in 1989, based on "containment sufficient to prevent release into the environment".

#### **3.5.2 1991 Radon Results Printout**

Results of a 1991 radon survey conducted in four locations at the Wagenaar USAR Center show that all four samples resulted in levels well below the United States Environmental Protection Agency's (USEPA) recommended maximum allowable exposure level of 4 Pico Curies per liter of air (pCi/l).

#### **3.5.3 1993 Oil/Water Separators and Storm Drainage System Improvements, U.S. Army Reserve Centers, Various Locations in Washington and Oregon and As Built Drawing**

This 1993 report by KPFF Consulting Engineers identified an existing stormwater drainage runoff problem with the POV parking area during large storm events. The report proposed building a grass area infiltration pond designed to store ½ inch of water from the parking area draining to the pond. In addition, two gaps were proposed to be cut in the curb to enhance the flow capacity of the infiltration pond from the parking area. A dry well was proposed to act as an overflow if water gets above the storage volume. An "As Built" drawing confirms the construction of the improvements.

### **3.5.4 2003 U.S. Army Reserve Integrated Cultural Resources Management Plan for the 70<sup>th</sup> Regional Readiness Command (RRC)**

Parsons, Inc. developed an integrated cultural resources management plan for USAR Centers in the 70<sup>th</sup> RRC in 2003. The report summarizes that no known archaeological sites, historic buildings, structures, objects, or properties of religious and cultural importance are present on the Wagenaar USAR Center.

### **3.5.5 2003 Stormwater Assessment and Guidance Report**

A Stormwater Assessment and Guidance Report was prepared by Weston Solutions, Inc. in 2003 for facilities in the 70<sup>th</sup> RRC. The objective was to analyze regulatory and facility information, create decision making guidance, and make recommendations for the 70<sup>th</sup> RRC. Regulatory agencies were contacted, and the permitting status of individual facilities assessed. Facilities were evaluated for compliance issues, and Stormwater Pollution Prevention Plans were reviewed for quality assurance during a site assessment visit in June 2003.

The Wagenaar Site fell into Group 3, which comprises facilities that are not individually permitted because they either drain into the sanitary sewer, are tenants of larger installations, or do not engage in regulated industrial activity. The report concludes that no permit is required because no regulated industrial activities are performed at the site. In addition, it was determined that no stormwater permit or stormwater pollution prevention plan exists for the facility.

### **3.5.6 2004 Material Inventory**

In 2004, ICI, LLC performed a hazardous material inventory at facilities in the 70<sup>th</sup> RRC. The report concludes that Wagenaar USAR Center had no hazardous materials stored at the facility.

### **3.5.7 2004 Survey of Drains, Pollution Control Equipment, and Discharge Points**

A Survey of Drains, Pollution Control Equipment, and Discharge Points was performed by ICI, LLC in 2004 and reported in a final report dated July, 2005. The report identifies two exterior surface storm drains, 4 dry wells, an infiltration pond, a can wash area and associated grease trap. In addition, interior floor drains are located within the kitchen area, and mechanical room.

According to the 2005 report, the interior drains are tied into the City's sanitary sewer system. The report states that the exterior drain adjacent to the can wash area just north of the administration building discharges into the grease trap, which in turn discharges to the sanitary sewer system. The other exterior drain discharges into one

of the dry wells. All four dry wells discharge into the ground through infiltration. The infiltration pond is located east of the POV parking area and collects run off from that area during large storm events. One of the dry wells was designed to handle any overflow from the infiltration pond.

### **3.5.8 April 2005 Soil and Groundwater Investigation Report**

A Soil and Groundwater Investigation Report for the Site was prepared in April, 2005 by Weston Solutions, Inc. Weston was retained by the U.S. Army Reserve to evaluate potential impacts to soil and groundwater due to a fuel pipeline release that reportedly occurred in the 1960s.

Three 6-inch diameter fuel pipelines owned by the Port of Pasco cross the Army Reserve property. The underground fuel lines have been abandoned, and capped. Based on a survey conducted in November 2003, the depth of the pipelines range from approximately 15 - 48 inches below ground surface. A pipeline breach in the 1960's released an unknown quantity of fuel (diesel and/or gasoline) to the subsurface. According to former Site personnel, the location of the spill was between 100-150 feet north of the northeast corner of the administration building.

Soil and groundwater sampling was performed in October 2004 on 12 soil, and 8 groundwater samples. Diesel-range hydrocarbons were detected in 4 soil samples and 2 groundwater samples. Based upon these results, four permanent groundwater monitoring wells were installed to verify groundwater direction and ascertain whether diesel impacted groundwater was migrating off the Site.

The results of these investigations indicate that although diesel-impacted soil was detected in the vicinity of the abandoned pipeline north of the OMS, these concentrations are below Washington State Department of Ecology, Model Toxics Control Act (MTCA) Method A cleanup levels. Groundwater samples collected in the vicinity of the former release, and immediately down gradient, however, did contain diesel-range hydrocarbon concentrations above the MTCA Method B cleanup levels. Groundwater samples from two down gradient monitoring wells did not contain detectable concentrations of diesel- or oil-range petroleum hydrocarbons indicating that off-site migration has not occurred.

Based on these results, additional groundwater monitoring was recommended in the report to further assess the stability of the groundwater concentrations beneath the site. This monitoring is currently in process.

### **3.5.9 2005 Final PCB-Containing Equipment Inventory Summary Report, Spokane Area and Pasco Facilities**

Engineering-Environmental Management, Inc. (E2M) prepared this report for the 70<sup>th</sup> RRC in order to comply with the Toxic Substances Control Act (TSCA) and AR 200-1. This report provides an inventory of equipment at the Site that contain PCBs. According to this report, electrical power is provided to the Site by the Franklin Public Utility District. One utility-owned power box is reported just outside of the southwest fence line of the Site, adjacent to East Ainsworth Street. The power box is not labeled.

Approximately 400 light fixtures throughout the facility were inventoried by E2M. A light ballast considered typical was labeled “No PCBs”. According to the E2M report, a renovation was conducted at the Site in 2001 which included upgrades to the lighting system. The Final PCB-Containing Equipment Inventory Summary Report concluded there “appears to be no remaining PCB-containing equipment at the Wagenaar USAR Center, and no further action is needed.”

### **3.5.10 Draft Copy 70<sup>th</sup> RRC BRAC 2005 Implementation Plan for Wagenaar USAR Center, Pasco, WA, Sections 6, 7, 10, 17 and 18**

A draft of the 2005 BRAC Implementation Plan for the Closure of Wagenaar USAR Center, Pasco, WA identifies several environmental issues with the Site; and makes the following statements:

- “There is asbestos tile in the facility that would need abatement and renovation if the Army Reserve remained in the center.” No additional information was provided.
- “The facility has had mold problems in the past”. No additional information was provided.
- “The facility has a sub-standard heating, ventilation, and air conditioning system that came up on an energy audit that recommended replacement...”
- “There is currently one entry for Wagenaar USAR Center in the Army Environmental Database – Restoration... The entry is for the indoor firing range project in 1999.” No additional information was provided, and no additional documentation on the firing range was provided for this ECP report.
- “...it is known that a burrowing owl nest (burrow) is located near the northeast corner of the facility boundary. It is unknown if the nest site is currently active....The burrowing owl is both a federal candidate species and a state candidate species (based on available [2004] data) and protected as a migratory bird under Executive Order 13186.”

- “There has been communication with the Washington State Department of Ecology (Ecology) regarding the historic fuel spill and subsequent soil and groundwater investigation. As of 19 July 2005, the 70<sup>th</sup> RRC is waiting for direction (based on review of the Site Investigation Report) by Ecology.”

### **3.5.11 2006 Integrated Solid Waste Management Plan**

MCS Environmental Inc. prepared a solid waste management plan for facilities in the 70<sup>th</sup> RRC in 2006. The Plan was written for a total of nineteen USAR Centers. Nine facilities were selected for solid waste characterization. The Wagenaar USAR Center was not one of the selected sites. The Site, however, was visited in February or March of 2006, and existing recycling activities were verified and additional recycling opportunities were identified. There is no mention of inappropriate disposal activities at the Site.

### **3.5.12 2006 Cross Connection/Water Use Survey Report**

A Cross Connection/Water Use Survey Report was prepared by ORCA for MCS Environmental as a part of an environmental study of select facilities of the 70<sup>th</sup> RRC. The report's objective was to identify and survey equipment in connection with the potable water system. Of specific concern were water connections that may connect to chemical processes or connection to the waste water system. The study indicated that the Site should make several upgrades and improvements on equipment in the boiler room and kitchen.

### **3.5.13 2006 Natural Resources Planning Level Surveys at U.S. Army Reserves, 70<sup>th</sup> RRC, Washington**

In 2005, Shaw Environmental & Infrastructure, Inc. (Shaw) performed a planning level natural resources survey at 70<sup>th</sup> RRC sites in Washington, including the Wagenaar USAR Center. The subsequent report is dated January 2006.

The scope of the report included contacting the Washington Department of Fish and Wildlife (WDFW) and the Washington Department of Natural Resources (WDNR) - Natural Heritage Program in October 2005 to obtain current known rare animals, habitats, significant natural features, rare plants, and high quality native ecosystems in the vicinity of the USAR Centers. The purpose of the agency correspondence was to collect known data to support natural resources management planning at the USAR Centers, and to improve understanding of the potential presence, distribution, and habitat use by potential rare, threatened, and endangered species. In addition, Shaw conducted pedestrian surveys throughout the extent of each property to identify and document vegetation, wildlife, and habitat.

During the site visit by Shaw in August, 2005, no natural or created wetlands were observed on the Site. Additionally, no streams, stormwater ponds, or other waterbodies were observed on the Site. Consequently, the Wagenaar USAR Center lacks aquatic species and habitats. The Washington Natural Heritage Information System found no current records of rare plants, threatened or endangered species, or high-quality ecosystems in the vicinity of the Site.

During the August 2005 site visit, however, the burrow of a Western burrowing owl (*Athene cunicularia*) was found on Wagenaar USAR Center. Feathers found at the burrow suggest that this nest site may have been active during 2005. Records from WDFW indicate there are ten burrowing owl nests within one mile of Wagenaar USAR Center. These nests have been part of a research project by University of Arizona. The collection of nest sites indicate that suitable habitat exist within and around Wagenaar USAR Center to support a colony of burrowing owls. The burrowing owl is both a federal candidate species and a state candidate species and protected as a migratory bird under Executive Order 13186. As such, the report recommends development of a management plan for the burrowing owl specific to the Site in coordination with WDFW.

#### **3.5.14 Asbestos Survey Status Table for the 70<sup>th</sup> RRC Facilities**

A table provided by the 70<sup>th</sup> RRC listing the status of Asbestos Containing Material (ACM) surveys for it's facilities, shows that an asbestos survey has been performed at the Site (with no date listing) and that the "report currently with [Force Feasibility Review] FFR committee". No additional information was provided.

#### 4.0 ADJACENT PROPERTIES

Figure 13 in Appendix A provides a 2004 aerial view of the Site and adjacent properties. The majority of property surrounding the Site is owned by the Port of Pasco, and much of the land immediately adjacent to the Site is open space. Specifically, the Port of Pasco owns the land immediately north, east and south (across E. Ainsworth St.). The property west of the Site across S. Maitland Ave. is owned by the City of Pasco. Refer to Table 1 below, Figure 13 in Appendix A, and the photographs in Appendix B where noted, for the following discussion of adjacent properties.

Land immediately north of the Site is open space owned by the Port of Pasco (Photograph 36 in Appendix B). A small parcel north across the Port of Pasco property is owned by the City of Pasco. It is unknown what this parcel is. Railroad tracks lie further northeast.

East Ainsworth St. borders the Site to the south. The property across East Ainsworth is also owned by the Port of Pasco, and is the site of the Port of Pasco Administration Office at 904 E. Ainsworth Ave. (Photograph 37 in Appendix B).

Land immediately east of the site is open space owned by the Port of Pasco. A gasoline station (Wondrack Distributing) is located east of the Site across the open space (Photograph 38 in Appendix B).

South Maitland Ave. borders the Site to the west. The property across South Maitland is owned by the City of Pasco and is the site of the Pasco Public Works wastewater treatment facility.

Southeast of the Site across Ainsworth situated on Port of Pasco property is M&M Bolt, which appears to be a small machine shop (Photograph 39 in Appendix B).

Southwest of the Site is Safety Kleen Corporation (Photographs 40 and 41 in Appendix B).

<b>Direction From Site</b>	<b>Name/Type of Property</b>	<b>Address</b>	<b>Zoning</b>
North	Port of Pasco/Open Space	None	Port of Pasco Commercial District
South	E. Ainsworth St./Port of Pasco Administration Office	904 E. Ainsworth Ave.	Port of Pasco Commercial District

<b>TABLE 1 LIST OF ADJACENT PROPERTIES</b>			
<b>Direction From Site</b>	<b>Name/Type of Property</b>	<b>Address</b>	<b>Zoning</b>
East	Port of Pasco/Open Space	None	Port of Pasco Commercial District
West	S. Maitland Ave/City of Pasco Public Works/Wastewater Treatment Facility	1025 Gray Ave	Port of Pasco Commercial District

Appendix A and Appendix E provide historical aerial photographs, topographic maps, and EDR Reports, which were used to evaluate any potential environmental impacts on adjacent properties that may have also impacted the environmental condition at the Site. Land use at immediately adjacent properties does not appear to have changed significantly over the years and does not appear to have impacted the environmental conditions of the USAR Center.

## 5.0 REVIEW OF REGULATORY INFORMATION

A component of the ECP is the review of all reasonably obtainable Federal, State, and Local government records for the Site and surrounding properties, where there has been a release or likely release of any hazardous substance or any petroleum product, and which is likely to cause or contribute to a release or threatened release of any hazardous substance or any petroleum product on the Federal real property. A regulatory database summary was acquired from EDR on July 14, 2006. The regulatory database summary consolidates standard Federal, State, Local, and tribal environmental record sources based on ASTM D 6008-96 (2005) recommended minimum search distances from the Site. A copy of the complete EDR report is included in Appendix E. Acronyms used throughout this section are defined in the EDR report in Appendix E. "High Risk" properties are those that exhibit significant environmental conditions that have the probability of adversely affecting the environmental conditions at another site.

### 5.1 FEDERAL ENVIRONMENTAL RECORDS

The regulatory information presented in Table 2 below was obtained from the EDR Federal regulatory database search report.

TABLE 2 FEDERAL DATABASE SEARCH								
Database	Search Distance (miles)	Target Site	<1/8	1/8 – 1/4	1/4 – 1/2	1/2 – 1	>1	Total Plotted
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
Delisted NPL	1.000		0	0	0	0	NR	0
NPL Recovery	TP		NR	NR	NR	NR	NR	0
CERCLIS	0.500		0	0	0	NR	NR	0
<b>CERC-NFRAP</b>	<b>0.500</b>		<b>1</b>	0	0	NR	NR	<b>1</b>
<b>CORRACTS</b>	<b>1.000</b>		<b>1</b>	0	0	0	NR	<b>1</b>
RCRA TSD	0.500		0	0	0	NR	NR	0

**TABLE 2  
FEDERAL DATABASE SEARCH**

Database	Search Distance (miles)	Target Site	<1/8	1/8 – 1/4	1/4 – 1/2	1/2 – 1	>1	Total Plotted
RCRA LQG	0.250		0	0	NR	NR	NR	0
<b>RCRA SQG</b>	<b>0.250</b>	<b>X</b>	<b>1</b>	0	NR	NR	NR	<b>1</b>
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
US Brownfields	0.500		0	0	0	NR	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
ODI	0.500		0	0	0	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
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0

<b>TABLE 2 FEDERAL DATABASE SEARCH</b>								
<b>Database</b>	<b>Search Distance (miles)</b>	<b>Target Site</b>	<b>&lt;1/8</b>	<b>1/8 – 1/4</b>	<b>1/4 – 1/2</b>	<b>1/2 – 1</b>	<b>&gt;1</b>	<b>Total Plotted</b>
MLTS	TP		NR	NR	NR	NR	NR	0
MINES	0.250		NR	NR	NR	NR	NR	0
<b>FINDS</b>	<b>TP</b>	<b>X</b>	NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0

Acronyms – are defined in detail in the attached EDR Report, Appendix E

TP=Target Property (the Site) NR=Not Requested at this Search Distance

### **5.1.1 Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) No Further Remedial Action Planned (CERC-NFRAP)**

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA’s knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

The following property is listed on the CERCLIS NFRAP database:

- Safety Kleen, 814 E. Ainsworth (<1/8 mi.).

Listing in this database suggests an assessment at the site has been completed and that EPA has determined no further steps will be taken to list this site on the NPL. The site was listed as Archive status on September 4, 1992. This property is southwest and down gradient from the Site, and therefore contamination of the USAR Center from Safety Kleen is unlikely.

### **5.1.2 CORRACTS Corrective Action Report**

CORRACTS identifies hazardous waste handlers with Resource Conservation and Recovery Act (RCRA) corrective action activity.

The following property is listed on the CORRACTS database:

- Safety Kleen, 814 E. Ainsworth (<1/8 mi.).

Listing in this database identifies Safety Kleen as a hazardous waste handler with RCRA corrective action activity that is listed as No Further Action as of December 31, 1992. This property is southwest and down gradient from the Site, and therefore contamination of the USAR Center from Safety Kleen is unlikely.

### **5.1.3 RCRA Small Quantity Generator (SQG)**

RCRAInfo is USEPA's comprehensive information system, providing access to data supporting the RCRA of 1976 and the Hazardous and Solid Waste Amendments of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the RCRA. Conditionally exempt small quantity generators generate less than 100 kilograms (kg) of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste.

According to the EDR report, the USAR Center is on the RCRA Small Quantity Generator list, and is listed as having no violations found.

Also listed as an SQG is:

- Safety Kleen, 814 E. Ainsworth (<1/8 mi.).

This facility has 10 recorded violations as a result of compliance evaluation inspections. The violations occurred in 1990, 1992, and 2001. The area of violations includes general requirements, Treatment, storage, or disposal (TSD) - other requirements, manifest record keeping requirements, closure requirements, and financial responsibility requirements. This property is southwest and down gradient from the Site, and therefore contamination of the USAR Center from Safety Kleen is unlikely.

### **5.1.4 Facility Index System/Facility Registry System (FINDS) Site**

The FINDS List contains both facility information and "pointers" to other sources that contain more detail. The EDR report includes the following FINDS databases in this report: Permit Compliance System, Aerometric Information Retrieval System; Enforcement Docket used to manage and track information on civil judicial enforcement

cases for all environmental statutes, Federal Underground Injection Control; Criminal Docket System used to track criminal enforcement actions for all environmental statutes; Federal Facilities Information System, State Environmental Laws and Statute, and PCB Activity Data System.

According to the EDR report, the USAR Center is in the FINDS list. There is no specific additional information provided in the EDR report.

## 5.2 STATE AND LOCAL ENVIRONMENTAL RECORDS

The regulatory information presented below was obtained from the EDR State and Local regulatory database search report. Sites identified by this database search are discussed in the following subsections.

<b>TABLE 3 STATE DATABASE SEARCH</b>								
<b>Database</b>	<b>Search Distance (miles)</b>	<b>Target Site</b>	<b>&lt;1/8</b>	<b>1/8 – 1/4</b>	<b>1/4 – 1/2</b>	<b>1/2 – 1</b>	<b>&gt;1</b>	<b>Total Plotted</b>
<b>CSCSL</b>	<b>1.000</b>		0	0	0	2	NR	<b>2</b>
HSL	1.000		0	0	0	0	NR	0
CSCSL NFA	0.500		0	0	0	NR	NR	0
<b>State Landfill</b>	<b>0.500</b>		0	0	1	NR	NR	<b>1</b>
SWTIRE	0.500		0	0	0	NR	NR	0
<b>LUST</b>	<b>0.500</b>		1	1	2	NR	NR	<b>4</b>
<b>UST</b>	<b>0.250</b>		2	1	NR	NR	NR	<b>3</b>
AST	0.250		0	0	NR	NR	NR	0
<b>Manifest</b>	<b>0.250</b>		1	0	NR	NR	NR	<b>1</b>
Spills	TP		NR	NR	NR	NR	NR	0
INST Control	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0

<b>TABLE 3 STATE DATABASE SEARCH</b>								
<b>Database</b>	<b>Search Distance (miles)</b>	<b>Target Site</b>	<b>&lt;1/8</b>	<b>1/8 – 1/4</b>	<b>1/4 – 1/2</b>	<b>1/2 – 1</b>	<b>&gt;1</b>	<b>Total Plotted</b>
ICR	0.500		0	1	0	NR	NR	1
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
WA Emissions	TP		NR	NR	NR	NR	NR	0
Inactive Drycleaners	0.250		0	0	NR	NR	NR	0

Acronyms – are defined in detail in the attached EDR Report, Appendix E

NR=Not Requested at this Search Distance

### **5.2.1 Confirmed & Suspected Contaminated Sites List – State Hazardous Waste Sites (CSCSL)**

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.

Listed on the CSCSL database search are:

- BNRR Pasco Rail Yard, Oregon Ave. and E. A Street (1/2-1 mi.), and
- Pasco Bulk Fuel Terminal Site, Ainsworth and W. 9<sup>th</sup> (1/2-1 mi.).

BNRR Pasco Rail Yard is situated approximately 3,000 feet northeast of the USAR Center. It is listed as having confirmed petroleum contamination above MCTA cleanup levels affecting soil and groundwater. It is reported that the site is undergoing independent remedial action, and that an Independent Site Assessment of Interim Remedial Action Report has been received by the State regulating agency. Due to the distance, and that remedial action is in progress, contamination of the USAR Center from the BNRR Rail Yard is unlikely.

The Pasco Bulk Fuel Terminal Site is situated close to a mile west, and down gradient of the USAR Center. It is listed as having confirmed contamination by hazardous

substances of soil, groundwater and surface water above MTCA cleanup levels. It is reported that remedial action is in progress. Due to the distance and down gradient direction of this site, and that remedial action is in progress, contamination of the USAR Center from the Pasco Bulk Fuel Terminal Site is unlikely.

### **5.2.2 State Landfill - Solid Waste Facilities Landfill Sites**

State Landfill 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.

Listed on the State Landfill database search is:

- Tommy's Auto Wrecking, 904 S. Oregon Ave. (1/4-1/2 mi.).

Situated almost 1,500 feet east of the Site, this facility is listed as a recycling facility under private ownership in the database. No additional information is provided. Contamination of the USAR Center from this facility is unlikely due to its distance and direction. Most likely this site is cross-gradient from the Site.

### **5.2.3 LUST - Leaking Underground Storage Tank List**

Leaking Underground Storage Tank (LUST) Incident Reports records contain an inventory of reported leaking underground storage tank incidents. Not all States maintain these records, and the information stored varies by State.

Listed on the LUST database search are:

- Wondrack Distributing, Inc., 919 E. Ainsworth Ave. (<1/8 mi.),
- Port of Pasco – Big Pasco Industrial Center, E. Ainsworth Ave. and A Ave. (1/8-1/4 mi.),
- Pasco Public Works Maintenance & Operations Facility, 1025 S. Gray St. (1/4-1/2 mi.), and
- Water World Marina Inc., 1315 S. 4<sup>th</sup> Ave., (1/4-1/2 mi.).

All four location's statuses are listed as "Reported Cleaned Up". Contamination of the USAR Center from the incidents reported in this LUST database from these facilities is unlikely. All four sites are cross gradient to the Site. Wondrack Distributing and the Port of Pasco – Big Pasco Industrial Center are east of the site, while Pasco Public Works and Water World Marina are west of the site.

#### **5.2.4 UST – Registered Underground Storage Tanks**

UST's are regulated under Subtitle I of RCRA and must be registered with the State department responsible for administering the UST program. Available information varies by State program.

Sites listed on the UST database search are:

- Wondrack Distributing, Inc., 919 E. Ainsworth Ave. (<1/8 mi.),
- Port of Pasco, Near Building T-209 (<1/8 mi.), and
- Basin Disposal, Inc., 1203 S. Gray (1/8-1/4 mi.).

#### **5.2.5 Manifest - Hazardous Waste Manifest Data**

Hazardous waste manifest information. The following facility was identified on the Manifest database:

- Safety Kleen, 814 E. Ainsworth (<1/8 mi.).

This property is southwest and down gradient from the Site, and therefore contamination of the USAR Center from Safety Kleen is unlikely.

#### **5.2.6 Independent Cleanup Reports (ICR)**

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.

The following site is listed on the ICR database search:

- Wondrack Distributing, Inc., 919 E. Ainsworth Ave. (<1/8 mi.).

This facility is located east of the Site and is presumed to be cross gradient. Contamination of the USAR Center from this site is considered unlikely.

#### **5.2.7 State of Washington Department of Ecology**

The State of Washington Department of Ecology was contacted to request environmental records available for the Site. Johnnie Landis, the Public Disclosure Coordinator sent back a response dated August 14, 2006 stating that no files were found.

### 5.3 TRIBAL ENVIRONMENTAL RECORDS

The regulatory information presented in Table 4 below was obtained from the EDR's Tribal database search report.

<b>TABLE 4 TRIBAL DATABASE SEARCH</b>								
<b>Database</b>	<b>Search Distance (miles)</b>	<b>Target Site</b>	<b>&lt;1/8</b>	<b>1/8 – 1/4</b>	<b>1/4 – 1/2</b>	<b>1/2 – 1</b>	<b>&gt;1</b>	<b>Total Plotted</b>
Indian Reservation	1.000		0	0	0	0	NR	0
Indian LUST	0.500		0	0	0	NR	NR	0
Indian UST	0.250		0	0	NR	NR	NR	0

Acronyms – are defined in detail in the attached EDR Report, Appendix E

NR=Not Requested at this Search Distance

According to the EDR report, no sites were located within the designated radius for each of the searched Tribal Databases.

### 5.4 EDR PROPRIETARY RECORDS

The regulatory information presented in Table 5 below was obtained from EDR's Proprietary Records database search report.

<b>TABLE 5 EDR PROPRIETARY DATABASE SEARCH</b>								
<b>Database</b>	<b>Search Distance (miles)</b>	<b>Target Site</b>	<b>&lt;1/8</b>	<b>1/8 – 1/4</b>	<b>1/4 – 1/2</b>	<b>1/2 – 1</b>	<b>&gt;1</b>	<b>Total Plotted</b>
Manufactured Gas Plants	1.000		0	0	0	0	NR	0
EDR Historical Auto Stations	TP		NR	NR	NR	NR	NR	0
EDR Historical Cleaners	TP		NR	NR	NR	NR	NR	0

Acronyms – are defined in detail in the attached EDR Report, Appendix E

TP=Target Property (the Site) NR=Not Requested at this Search Distance

According to the EDR report, no sites were located within the designated radius for each of the searched EDR Proprietary Databases.

### 5.5 UNMAPPED SITES

The EDR database search yielded twenty-four unmapped sites. Unmapped sites are those with insufficient address information such that they can only be identified as within the zip code of the target property. A reasonable effort was made to locate these sites and assess their relevance to this ECP report. Further research was conducted using the mapping utility provided at maps.google.com and field verification. The locations of all orphaned sites were identified and mapped. None of the sites are located within corresponding ASTM search radius distance.

### 5.6 SUMMARY OF PROPERTIES EVALUATED TO DETERMINE RISK TO THE SITE

To summarize Subsections 5.1 through 5.5, nine separate properties, in addition to the USAR Center, were evaluated as potential risk properties to the Site. The properties evaluated were identified as a result of information obtained during area reconnaissance and regulatory database searches and are listed below in Table 6.

<b>TABLE 6</b>				
<b>PROPERTIES EVALUATED FOR POTENTIAL ENVIRONMENTAL RISKS</b>				
<b>Company/Site</b>	<b>Database</b>	<b>Elevation in Regards to Site</b>	<b>Potential Risk to Site?</b>	<b>Comment</b>
Safety Kleen	CERCLIS-NFRAP, CORRACTS, RCRA-SQG, MANIFEST	Equal or Higher	Low	Down gradient from Site.
BNRR Pasco Rail Yard	CSCSL	Equal or Higher	Moderate	Remedial action is in progress. Up gradient from Site.
Pasco Bulk Fuel Terminal	CSCSL	Lower	Low	Down gradient from Site.
Tommy's Auto Wrecking	State Landfill	Lower	Low	Solid waste recycling. Down gradient from Site.
Wondrack Distributing	LUST, UST, ICR	Equal or Higher	Moderate	LUST reported cleaned up. UST registered. Cross gradient from Site.
Port of Pasco-Big Pasco	LUST, UST	Lower	Low	LUST reported cleaned up. UST registered
Pasco Public Works Maintenance & Ops.	LUST	Equal or Higher	Low	LUST reported cleaned up.

<b>TABLE 6</b>				
<b>PROPERTIES EVALUATED FOR POTENTIAL ENVIRONMENTAL RISKS</b>				
<b>Company/Site</b>	<b>Database</b>	<b>Elevation in Regards to Site</b>	<b>Potential Risk to Site?</b>	<b>Comment</b>
Water World Marina	LUST	Lower	Low	LUST reported cleaned up.
Basin Disposal, Inc.	UST	Equal or Higher	Low	UST registered.

Acronyms – are defined in detail in the attached EDR Report, Appendix E

Based on an evaluation of available site information and details concerning the properties listed in Table 6, none of the facilities evaluated are classified as “High Risk”. “High Risk” properties are those that exhibit significant environmental conditions that have the probability of adversely affecting the environmental conditions at another site.

## **6.0 SITE INVESTIGATION AND REVIEW OF HAZARDS**

Findings documented in the following subsections are based on the September 11, 2006, Site visit and area reconnaissance, a review of available Site records, and information obtained from U.S. Army Reserve personnel.

### **6.1 ABOVEGROUND STORAGE TANKS**

No ASTs have historically been located at the Site or are currently located at the site. No ASTs were observed during the September 2006 Site visit.

### **6.2 ASBESTOS CONTAINING MATERIAL**

A table provided by the 70<sup>th</sup> RRC listing the status of ACM surveys for its facilities, shows that an asbestos survey has been performed at the Site (with no date listing) and that the "report currently with FFR committee". In addition, a draft copy of the 2005 BRAC Implementation Plan on the Closure of Wagenaar United States Army Reserve Center, Pasco, WA states, "There is asbestos tile in the facility that would need abatement and renovation if the Army Reserve remained in the center." No additional information was provided.

During the Site visit, floor tiles and pipe wrap, materials that may contain ACM, were observed in cracked and torn condition (Photographs 42 and 43 in Appendix B).

### **6.3 INDOOR FIRING RANGE**

Historically, the Site operated an indoor firing range. The range area is now used as a weight and physical training room. No information on decommissioning or abatement was provided. During the September 2006 site visit, the wall at the target end of the former range exhibited pitting (Photograph 20 in Appendix B).

### **6.4 INVENTORY OF CHEMICALS / HAZARDOUS SUBSTANCES**

At the time of the Site visit, the OMS building was essentially empty (Photograph 30 in Appendix B). Only one desk was present in the corner and a fire proof cabinet was against a wall. The cabinet contained 2 partially used 5 gallon cans of lubricating oil, 1 partially used 5 gallon container of antifreeze, 2 partially used 1 gallon cans of paint, WD-40 and miscellaneous small cans and bottles (Photograph 32 in Appendix B). Miscellaneous training supplies and routine janitorial supplies were observed in the administration building at the time of the September 2006 site visit.

One 55 gallon drum was observed during the September 2006 Site visit against the north wall behind the administration building (Photograph 44 and 45 in Appendix B). The drum was labeled, "Container on hold pending analysis". The label also identified

that the contents was ground water with low diesel concentrations (<5ppm), and that it was from the monitoring wells.

## **6.5 LEAD BASE PAINT (LBP)**

According to information provided by the 70<sup>th</sup> RCC, there are no documented lead-based paint surveys or abatement projects at the Site. Based on the date of construction (1974), it is likely that LBP exists in the administration building. The OMS building was constructed in 2002 and it is unlikely that LBP is present in that structure. During the 2006 site visit, painted surfaces within the administration building and OMS appeared to be in fair condition.

## **6.6 MUNITIONS AND EXPLOSIVES OF CONCERN (MEC)**

No indications were found during the September 2006 site visit or during the review of records to indicate the presence of MEC at the Site, including unexploded ordinance. A locked small arms vault is located within the administration building. According to site personnel, however, no ammunition for the arms are located or stored at the Site.

## **6.7 NEARBY PROPERTIES**

Land immediately north of the Site is open space owned by the Port of Pasco. East Ainsworth St. borders the Site to the south. The property across East Ainsworth is also owned by the Port of Pasco, and is the site of the Port of Pasco Administration Office at 904 E. Ainsworth Ave. Immediately east of the site is open space owned by the Port of Pasco. A gasoline station (Wondrack Distributing) is located east of the Site across the open space. South Maitland Ave. borders the Site to the west. The property across South Maitland is owned by the City of Pasco and is the site of the Pasco Public Works wastewater treatment facility.

## **6.8 PITS, SUMPS, DRYWELLS, AND CATCH BASINS**

A 2005 Survey of Drains, Pollution Control Equipment, and Discharge Points identified two exterior surface storm drains, 4 dry wells, an infiltration pond, a can wash area and associated grease trap. In addition, interior floor drains are located within the kitchen area, and mechanical room. All of these structures were observed during the 2006 Site visit and appeared to be in functioning condition.

According to the 2005 report, the interior drains are tied into the City's sanitary sewer system. The report states that the exterior drain adjacent to the can wash area just north of the administration building discharges into the grease trap, which in turn discharges to the sanitary sewer system. The other exterior drain discharges into one of the dry wells. All four dry wells discharge into the ground through infiltration. The grass bottom infiltration pond, located east of the POV parking area, was constructed in

1993 to improve drainage from the parking area. One of the dry wells was added at this time to handle any overflow from the infiltration pond.

#### **6.9 POLYCHLORINATED BIPHENYL CONTAINING EQUIPMENT**

One pad-mounted, power box located outside the fence adjacent to E. Ainsworth Ave. was observed. No labels, stickers or indication of the presence or non-presence of PCBs was observed on the transformer during the site visit.

Based upon information provided by the 70<sup>th</sup> RRC, there is no known PCB containing equipment at this facility; however, PCBs may be contained in light ballasts in older type light fixtures. Based on the construction date of the buildings it is possible that some of these ballasts could potentially contain PCBs. Any light ballast not marked with "No PCBs" should be assumed to contain PCBs and management and disposal of these light ballasts must be in accordance with Local, State and Federal requirements.

#### **6.10 RADIOACTIVE MATERIALS**

During the September 2006 Site visit and records review process, no indications were found of the past storage or use of radiological commodities at the USAR Center.

#### **6.11 RADON**

Information provided by the 70<sup>th</sup> RCC shows that a site-specific radon survey was performed in 1991. Based on the sampling results, no locations sampled exhibited radon levels above the USEPA's recommended maximum allowable exposure level of 4 pCi/l. Radon surveys are currently being performed at facilities within the 70<sup>th</sup> RRC by Shaw Environmental Group. The radon surveys commenced in July 2006 and results are currently not available.

#### **6.12 TRANSFORMERS**

A concrete pad mounted power box situated outside the facility fence is located adjacent to Ainsworth Avenue. The power box is not labeled and is operated and maintained by the local utility, Franklin Public Utility District.

#### **6.13 UNDERGROUND STORAGE TANKS**

No USTs have historically been located at the Site or are currently located at the site. No USTs were observed during the September 2006 Site visit.

#### **6.14 WASTE DISPOSAL SITES AND ACTIVITIES**

Solid waste is managed on-site in a metal dumpster and picked up weekly by Basin Disposal, Inc. Non-hazardous waste management, such as waste oil, is managed by

the Defense Utilization Marketing Office (DRMO). There were no signs of land-filling or illegal waste disposal activities at the Site during the September 2006 site visit.

## **7.0 REVIEW OF SPECIAL RESOURCES**

### **7.1 LAND USE**

Figure 13 in Appendix A provides a 2004 aerial photograph of the USAR Center and surrounding properties and depicts current land use. The Site is zoned as part of the Port of Pasco Commercial District 1. The overall area is commercial and light industrial.

### **7.2 COASTAL ZONE MANAGEMENT**

According to the Department of Energy Environmental Policy & Guidance website for Coastal Zone Management Act and related regulations, Franklin County Washington does not lie within a coastal zone management area ([www.eh.doe.gov/oepa/laws/czma.html](http://www.eh.doe.gov/oepa/laws/czma.html)).

### **7.3 WETLANDS**

According to the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory map, no jurisdictional wetland areas are identified on the Site or adjacent properties. The nearest wetland is located approximately 1000 feet south and down gradient of the Site, adjacent to the Columbia River. Figure 6 in Appendix A provides a map showing wetlands in the immediate vicinity of the Site.

During the September 2006 site visit, no cattails and other vegetation indicative of saturated areas were observed at the Site.

### **7.4 100-YEAR FLOOD PLAIN**

A review of the FEMA digital Flood Hazard Area map indicates that the Site lies outside the 100-year and 500-year plains. Figure 6 in Appendix A provides a map showing 100-year and 500-year flood plains located in the immediate vicinity of the Site.

### **7.5 NATURAL RESOURCES**

In 2005 a planning level natural resources survey at 70<sup>th</sup> RRC sites in Washington, included the Wagenaar USAR Center. No natural or created wetlands were observed on the Site. Additionally, no streams, stormwater ponds, or other waterbodies were observed on the Site. Consequently, the Wagenaar USAR Center lacks aquatic species and habitats.

Also reported in 2005, the Washington Natural Heritage Information System found no current records of rare plants, threatened or endangered species, or high-quality ecosystems in the vicinity of the Site.

During an August 2005 site visit by the environmental contractor performing the planning level survey, the burrow of a Western burrowing owl (*Athene cunicularia*) was found on Wagenaar USAR Center. Feathers found at the burrow suggest that this nest site may have been active during 2005. Records from WDFW indicate there are ten burrowing owl nests within one mile of Wagenaar USAR Center. These nests have been part of a research project by University of Arizona. The collection of nest sites indicate that suitable habitat exist within and around Wagenaar USAR Center to support a colony of burrowing owls. The burrowing owl is both a federal candidate species and a state candidate species and protected as a migratory bird under Executive Order 13186. As such, the report recommends development of a management plan for the burrowing owl specific to the Site in coordination with WDFW.

## **7.6 CULTURAL RESOURCES**

An integrated cultural resources management plan for USAR Centers in the 70<sup>th</sup> RRC was done in 2003. The report summarizes that no known archaeological sites, historic buildings, structures, objects, or properties of religious and cultural importance are present on the Wagenaar USAR Center.

## 8.0 CONCLUSIONS

Lawhon & Associates, Inc. in conjunction with FMSM was contracted to prepare an ECP report for the PFC Daniel L. Wagenaar U.S. Army Reserve Center WA024 located at 1011 East Ainsworth Street, Franklin County, Washington 99301. The tract of land is rectangular shaped and encompasses approximately 7 acres. The Site consists of two permanent buildings: the administrative building and an outlying OMS building.

The USAR Center is currently occupied by the 737<sup>th</sup> Transportation Company (out of Yakima, WA) and the 104<sup>th</sup> Division Drill Sergeants. The Site has always been a USAR Center since the facility was constructed in 1974. The Site has primarily functioned as an administrative, logistical, and educational facility, with limited basic vehicle maintenance occurring in the OMS building.

Findings of this ECP Report are based on interviews, existing environmental information, including visual observations, site records, Federal, State, and Local database and file information, related to the storage, release, treatment, or disposal of hazardous substances or petroleum products or derivatives on the property. The following paragraphs present the findings related to areas of potential environmental concern that were evaluated during the ECP process.

- **Aboveground Storage Tanks** - No ASTs have historically been located at the Site or are currently located at the site.
- **Asbestos Containing Materials** - A table provided by the 70<sup>th</sup> Regional Readiness Command listing the status of ACM surveys for it's facilities, shows that an asbestos survey has been performed at the Site (with no date listing) and that the "report currently with FFR committee". In addition, a draft copy of the 2005 BRAC Implementation Plan on the Closure of Wagenaar United States Army Reserve Center, Pasco, WA states, "There is asbestos tile in the facility that would need abatement and renovation if the Army Reserve remained in the center." No additional information was provided.
- **Hazardous Substances** - Chemicals containing CERCLA hazardous substances may have been used and stored at the Site in amounts necessary to support unit-level vehicle and building maintenance activities. However, the quantities stored would not have exceeded corresponding CERCLA threshold planning quantities. There is no evidence that the chemicals used or stored were ever improperly handled, released, or disposed at the Site.
- **Indoor Firing Range** - Historically, the Site operated an indoor firing range. The range area is now used as a weight and physical training room. No information on decommissioning or abatement was provided. During the 2006 site visit, the wall at the target end of the former range exhibited firing marks.

- **Lead-Based Paint** - According to information provided by the 70<sup>th</sup> RRC, there are no documented LBP surveys or abatement projects at the Site. Based on the date of construction of the administration building (1974), it is likely that LBP exists in the structure. The OMS, however, was constructed in 2002, and due to its more recent date of construction, may not contain LBP. During the 2006 site visit, painted surfaces within the administration building and OMS appeared to be in fair condition.
- **Munitions and Explosives of Concern** - No indications were found during the site visit or records review process of the past presence of MEC, including unexploded ordinance. A locked small arms vault is located within the administration building. According to site personnel no ammunition for the arms are located or stored at the Site.
- **Natural Resources** - A previous report has documented that a burrowing owl nest (burrow) is located near the northeast corner of the facility boundary. It is unknown if the nest site is currently active. The burrowing owl is both a federal candidate species and a state candidate species (based on available [2004] data) and protected as a migratory bird under Executive Order 13186.
- **Nearby Properties** - Potential environmental sites of concern, located within corresponding ASTM search radius distances from the Site were evaluated. Overall, none of the sites evaluated exhibit environmental conditions that have a probability to adversely affect environmental conditions at the Site.
- **Non-UST/AST Petroleum Storage** - Although fuel transportation trucks are temporarily parked at the Site, a personnel interview during the 2006 site visit indicated that fuel is emptied and the containers are purged off-site. Additional petroleum storage may historically have occurred within the OMS building. There is no evidence that petroleum products in excess of 55 gallons were stored for one year or more on-site.
- **Pipelines** - Three 6-inch diameter fuel pipelines owned by the Port of Pasco cross the Army Reserve property. The underground fuel lines have been abandoned, and capped. Based on a survey conducted in November 2003, the depth of the pipelines range from approximately 15 - 48 inches below ground surface. A pipeline breach in the 1960's released an unknown quantity of fuel (diesel and/or gasoline) to the subsurface. The location of the spill was between 100-150 feet north of the northeast corner of the administration building.

Soil and groundwater sampling was performed in October 2004 on 12 soil, and eight groundwater samples. Diesel-range hydrocarbons were detected in 4 soil samples and 2 groundwater samples. Based upon these results, four permanent

groundwater monitoring wells were installed to verify groundwater flow direction and ascertain whether diesel impacted groundwater was migrating off the Site.

The results of these investigations indicate that although diesel-impacted soil was detected in the vicinity of the abandoned pipeline north of the OMS, these concentrations are below Washington State Department of Ecology, MTCA Method A cleanup levels. Groundwater samples collected in the vicinity of the former release, and immediately down gradient, contained diesel-range hydrocarbon concentrations above the MTCA Method B cleanup levels. Groundwater samples from two down gradient monitoring wells did not contain detectable concentrations of diesel- or oil-range petroleum hydrocarbons indicating that off-site migration has not occurred.

Based on these results, additional groundwater monitoring was recommended to further assess the stability of the groundwater concentrations beneath the site. This monitoring is currently in process.

- **Pits, Ponds, Sumps, Drywells, and Catch Basins** - A 2005 Survey of Drains, Pollution Control Equipment, and Discharge Points identified two exterior surface storm drains, 4 dry wells, an infiltration pond, a can wash area and associated grease trap. In addition, interior floor drains are located within the kitchen area, and mechanical room. All of these structures were observed during the 2006 Site visit and appeared to be in functioning condition.

According to the 2005 report, the interior drains are tied into the City's sanitary sewer system. The report states that the exterior drain adjacent to the can wash area just north of the administration building discharges into the grease trap, which in turn discharges to the sanitary sewer system. The other exterior drain discharges into one of the dry wells. All four dry wells discharge into the ground through infiltration. The grass bottom infiltration pond, located east of the POV parking area, was constructed in 1993 to improve drainage from the parking area. One of the dry wells was added at this time to handle any overflow from the infiltration pond.

- **Polychlorinated Biphenyls** - A concrete pad mounted power box situated outside the facility fence is located adjacent to Ainsworth Avenue. The power box is not labeled and is operated and maintained by the local utility, Franklin Public Utility District.
- **PCB Equipment** - According to information provided in a 2005 PCB-Containing Equipment Inventory report, "There appears to be no remaining PCB-containing equipment at the Site and no further action is needed".

- **Radiological Materials** - Facility personnel indicated that to their knowledge the Site never had a Nuclear Regulatory permit. Most military facilities will have some low level radiological materials associated with the illumination of various types of military equipment (e.g., watch dials, compasses, aiming circles, etc.). There is no evidence to suggest that any radiological commodities were ever improperly managed at the Site, or that any radionuclides were ever released
- **Radon** - Information provided by the 70<sup>th</sup> RCC shows that a radon survey was performed at the site in 1991. Based on the sampling results, no locations sampled exhibited radon levels above the USEPA's recommended maximum allowable exposure level of 4 pCi/l. Radon surveys are currently being performed at facilities within the 70<sup>th</sup> RRC by Shaw Environmental Group. The radon surveys commenced in July 2006 and results are currently not available.
- **Underground Storage Tanks** - No USTs have historically been located at the Site or are currently located at the site.

In accordance with Department of Defense policy defining the classifications (See Deputy Under Secretary of Defense Goodman Memorandum dated 21 October 1996), the Site has been classified as Category 2, an area or parcel of real property where only the release or disposal of petroleum products or their derivatives has occurred. This classification is based on the breached pipeline and ongoing monitoring of groundwater that initially exhibited concentrations of petroleum hydrocarbons above MTCA cleanup levels.

## 9.0 LIMITATIONS

This ECP Report was prepared to review certain elements of the environmental condition of property related to the storage, release, treatment, or disposal of hazardous substances or petroleum products. It documents efforts to determine or discover the presence or likely presence of a release or threatened release of these materials. Project activities were performed in general conformance with the BRRM, ASTM D6008 guidance, the project prescribed scope of work, and generally accepted practices in the consulting industry. The degree of care and skill is consistent with that generally exercised in the industry under similar conditions.

Lawhon & Associates, Inc., has relied on certain information provided by the USACE, USAR, and other parties referenced in the report. This information was assumed to be accurate and complete unless information to the contrary arose during the course of the investigation. Historic documentation (e.g., information on past environmental practices, environmental records, USAR Center operational changes, unit and equipment changes, chemical/substance inventories and storage, current as-built drawings, etc.) and facility personnel knowledge regarding chemicals used or stored on the Site and the quantities stored, was often limited or non-existent. Therefore, statements regarding storage of chemicals or presence of hazardous substances reflect best available data and are not warranted for either completeness or accuracy over the history of the facility.

In preparing this report, Lawhon & Associates, Inc., was required to review previous documents from other sources (collectively referred to herein as the Prior Reports). The Prior Reports may present findings regarding the abatement or remediation of *known* concerns at the time of their preparation or within the limit of the project scope of work. The Prior Reports may include statements or opinions of the original authors of the Prior Reports as to the satisfactory completion of work. Lawhon & Associates, Inc., notes that environmental laws and regulations, including abatement or remedial action levels, are periodically reviewed and updated by the various regulatory agencies and may have changed since the respective dates of the Prior Reports.

Lawhon & Associates, Inc. has summarized certain of the Prior Reports in fulfilling the project prescribed scope of work. This summarization may include statements or opinions as to the satisfactory completion of work. These statements or opinions are those of the original report authors. Lawhon & Associates, Inc. neither warrants nor certifies the accuracy or completeness of these statements. The summarization of previous documents has not reviewed or updated those conclusions with regards to actions from the time of that document to date, current regulatory agency abatement, or remedial standards. Rather, this summary provides the original author's conclusions at the time the report was prepared. Evaluation of the completeness of previous

documents or statements of abatement or remediation is beyond the current scope of service included in this contract.

A limited site reconnaissance was performed to visually identify materials or conditions representing recognized adverse environmental conditions. Identification of hidden conditions, observation of the effects of activities or incidents occurring after completion of the reconnaissance, buried conditions, conditions obscured by dense foliage, conditions beneath buildings, other structures, or covered by building/paving materials, or conditions otherwise obscured, is beyond the scope of this work. The conditions described in this report are valid only at the time that the observations were made. Some conditions may change with time.

The findings and conclusions contained in this report are based in part on the information available at the time of the study. The findings and conclusions should be considered not as scientific certainties, but as probabilities based on professional judgment of the significance of the limited data gathered in the course of the site evaluation, interviews and literature review. If additional or corrected information becomes available, Lawhon & Associates, Inc., requests the opportunity to review/modify conclusions, as warranted.

## **10.0 REFERENCES**

### **10.1 PERSONS CONTACTED**

- Mr. Patrick Marchman, Environmental Program Manger, ICI, LLC, U.S. Army Reserves 70<sup>th</sup> Regional Readiness Command, (206) 301-2091, September 11, 2006.
- Ms. Patricia Bradford, Unit Administrator, PFC Daniel L. Wagenaar USAR Center, Pasco, WA, (509) 547-7527, September 11, 2006.

### **10.2 RESOURCES CONSULTED**

- Environmental Data Resources, Inc. (EDR) Report for the PFC Daniel L. Wagenaar USAR Center, Pasco, WA, July 14, 2006.
- Federal Regulatory Databases
  - National Priorities List (NPL), April 19, 2006
  - Proposed NPL Sites, April 19, 2006
  - Delisted NPL Sites, April 19, 2006
  - Federal Superfund Liens (NPL Liens), October 15, 1991
  - Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), February 1, 2006
  - CERCLIS No Further Remedial Action Planned Sites (NFRAP), February 1, 2006
  - Resource Conservation and Recovery Information System (RCRIS) Corrective Action Sites (CORRACTS), March 15, 2005
  - Resource Conservation and Recovery Act Information (RCRA), March 9, 2006
  - Emergency Response Notification System (ERNS), December 31, 2005
  - Engineering Controls Sites List (US ENG CONTROLS), March 21, 2006
  - Listing of Brownfields Sites, April 26, 2006
  - Superfund Consent Decrees, December 14, 2004

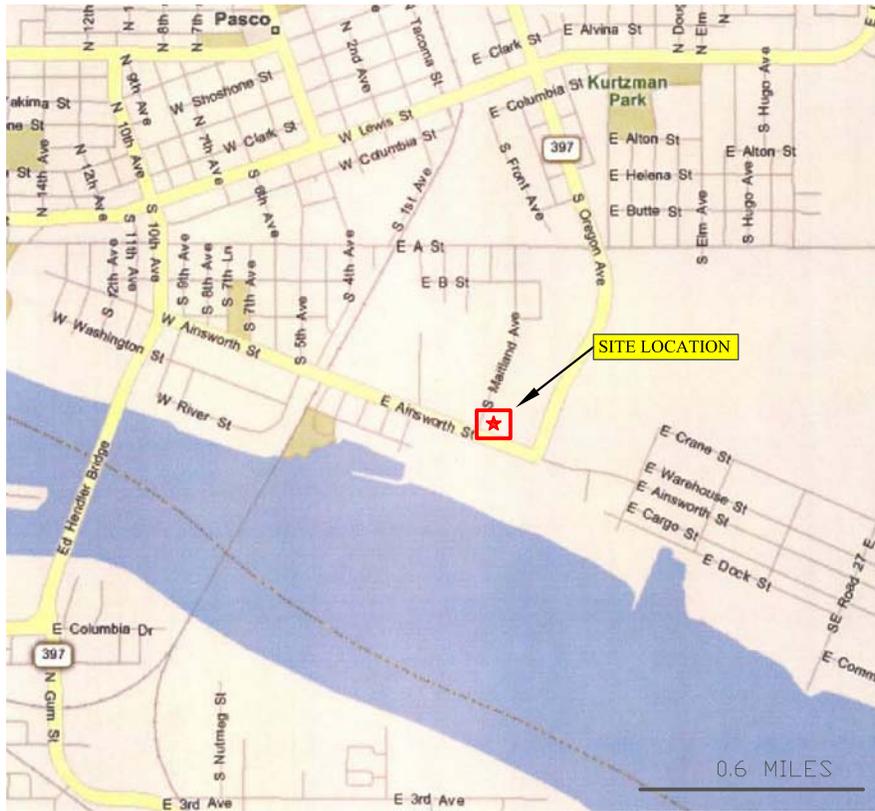
- Records of Decision (ROD), March 13, 2006
- Department of Defense Sites, December 31, 2004
- Uranium Mill Tailings Sites, November 4, 2005
- Open Dump Inventory (ODI), June 30, 1985
- Toxic Chemical Release Inventory System (TRIS), December 31, 2003
- Toxic Substances Control Act (TSCA), December 31, 2002
- FIFRA/TSCA Tracking System, March 29, 2006
- FTTS INSP, March 31, 2006
- Section 7 Tracking Systems (SSTS), December 31, 2004
- Integrated Compliance Information System (ICIS), February 13, 2006
- PCB Activity Database System (PADS), December 27, 2005
- Material Licensing Tracking System (MLTS), April 12, 2006
- Mines Master Index File (MINES), February 9, 2006
- Facility Index System/Facility Registry System (FINDS), April 27, 2006
- RCRA Administrative Action Tracking System (RAATS), April 17, 1995
- Biennial Reporting System (BRS), December 31, 2003
- State and Local Regulatory Databases
  - Confirmed and Suspected Contaminated Sites List, May 11, 2006
  - Hazardous Sites List, March 27, 2006
  - Confirmed & Contaminated Sites – No Further Action, May 11, 2006
  - Solid Waste Facility Database, October 01, 2004
  - Solid Waste Tire Facilities, November 01, 2005
  - Leaking Underground Storage Tanks Site List, March 08, 2006

- Underground Storage Tank Database, April 27, 2006
- Aboveground Storage Tank Locations, December 12, 2005
- Hazardous Waste Manifest Data, December 31, 2004
- Reported Spills, March 29, 2006
- Institutional Control Site List, June 06, 2006
- Voluntary Cleanup Program Sites, May 11, 2006
- Independent Cleanup Reports, December 01, 2002
- Drycleaner List, January 12, 2006
- Clandestine Drug Lab Contaminated Site List, May 23, 2006
- Washington Emissions Data System, December 31, 2004
- Inactive Drycleaners, January 01, 2006
- Tribal Records
  - Indian Reservations, December 31, 2004
  - Leaking Underground Storage Tanks on Indian Land, April 14, 2006
  - Underground Storage Tanks on Indian Land, April 05, 2006
- EDR Proprietary Records
  - Manufactured Gas Plants
  - Historical Auto Stations
  - Historical Cleaners
- Historical Chain of Title Report for the PFC Daniel L. Wagenaar USAR Center, Pasco, WA, September 13, 2006.
- Environmental Lien Search Report for the PFC Daniel L. Wagenaar USAR Center, Pasco, WA, September 13, 2006.

- Faces from the Wall, Vietnam War website, September, 2006, <http://www.facesfromthewall.com/1969jul.html>.
- Franklin County Washington Assessors website, September 2006, <http://www.co.franklin.wa.us/assessor/>.
- U.S. Department of Energy, Coastal Zone Management Act and Related Legislation website, September, 2006, [www.eh.doe.gov/oepa/laws/czma.html](http://www.eh.doe.gov/oepa/laws/czma.html).
- Washington State Department of Natural Resources Geology of Washington, Columbia Basin Area website, September, 2006, <http://www.dnr.wa.gov/geology/columbia.htm>.

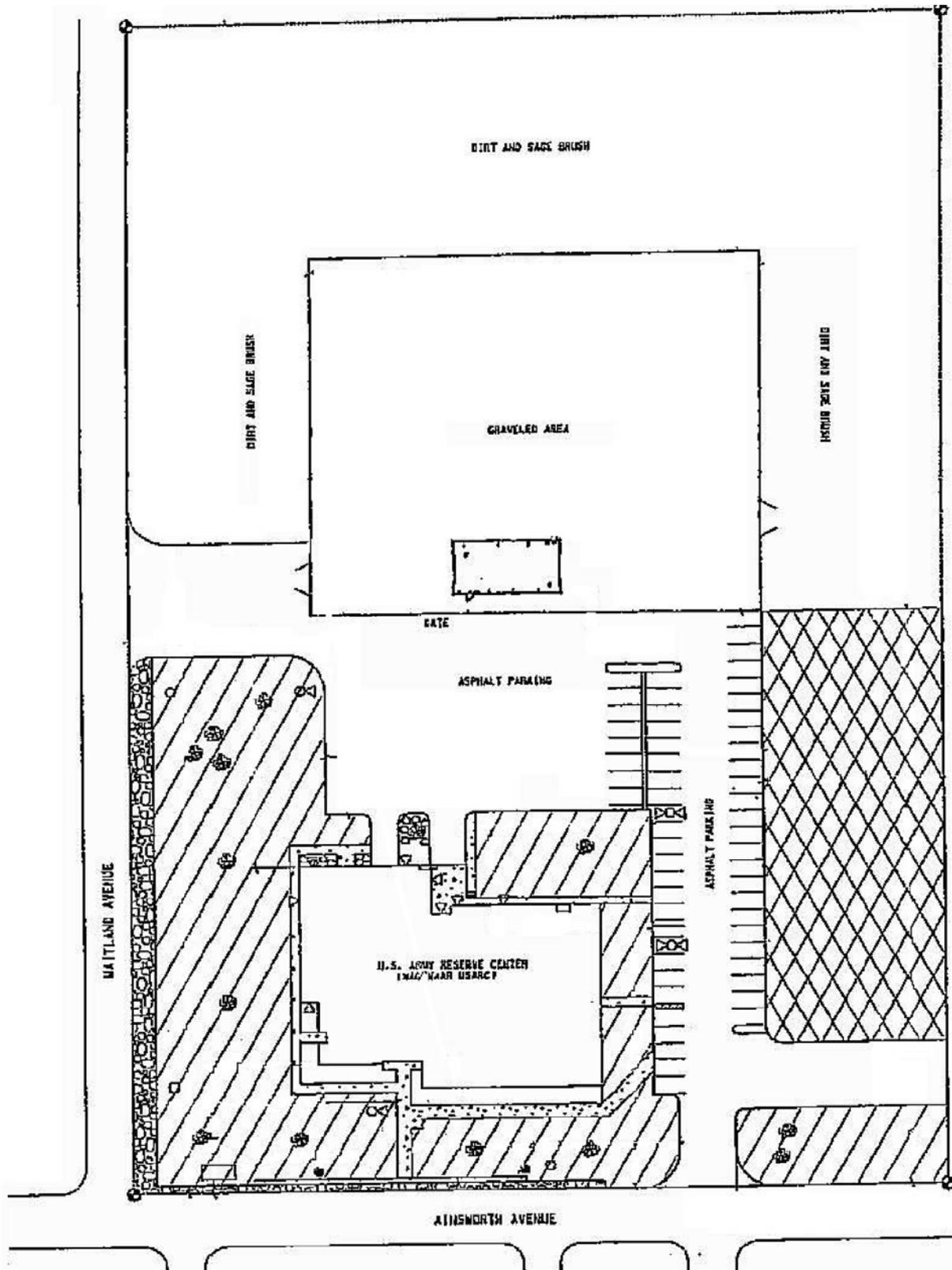
### **10.3 AGENCIES CONTACTED**

- Johnnie Landis, Public disclosure Coordinator, State of Washington, Department of Ecology, Eastern Region Office, 3190 160<sup>th</sup> Ave. SE, Bellevue, WA, August 14, 2006.
- Ms Stephanie Kercheval, FOIA Officer, United States Environmental Protection Agency, Region 10, 1200 6<sup>th</sup> Avenue, Seattle Washington, August 14, 2006.



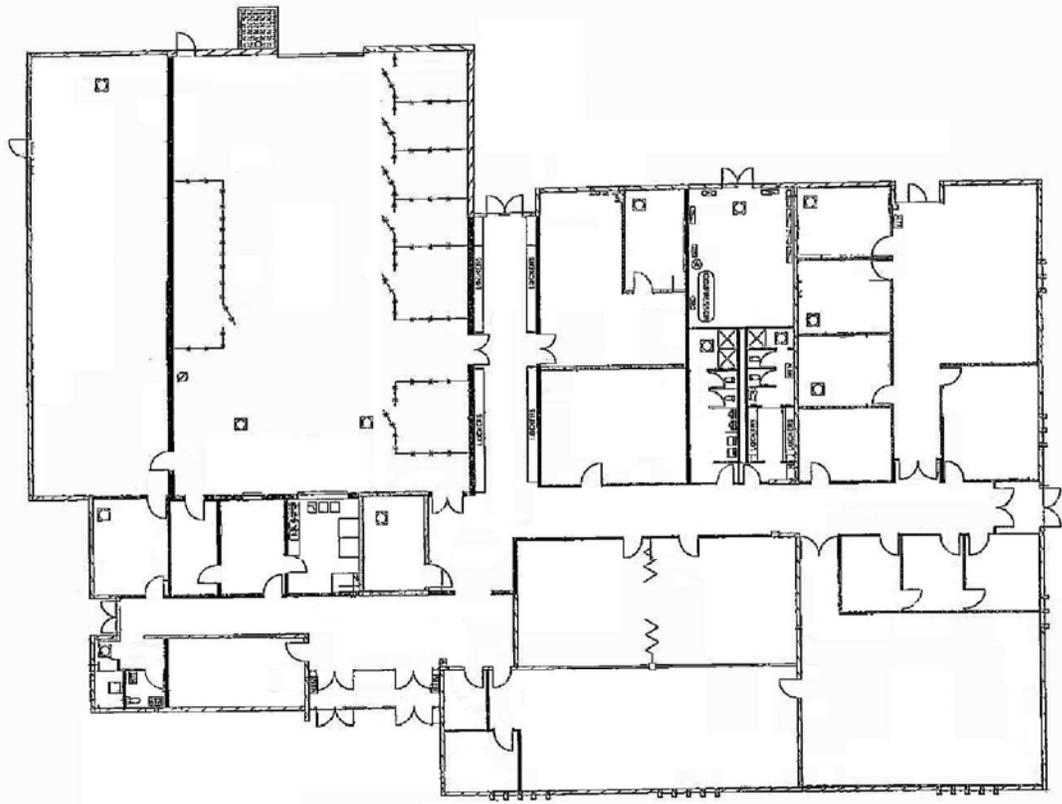
IMAGES PROVIDED THROUGH WINDOWS LIVE

FIGURE 1  
 GENERAL SITE LAYOUT PLAN  
 PFC DANIEL L. WAGENAAR USARC-WA024  
 1011 E. AINSWORTH ST.  
 PASCO, WASHINGTON



SCALE: 1"=80'  
APPROXIMATE SCALE

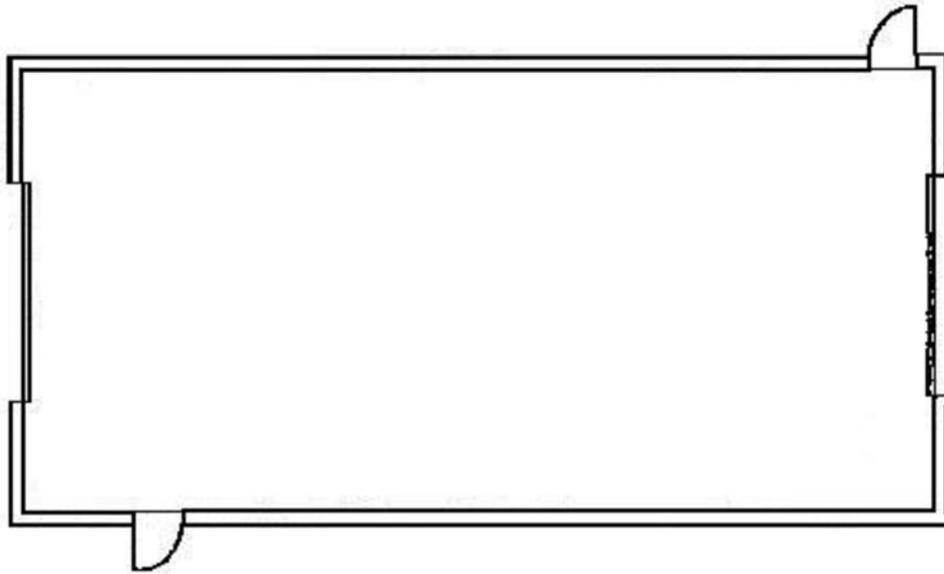
FIGURE 2  
SITE LAYOUT PLAN  
PFC DANIEL L. WAGENAAR USARC-WA024  
1011 E. AINSWORTH ST.  
PASCO, WASHINGTON



SCALE: 1"=32'  
APPROXIMATE SCALE



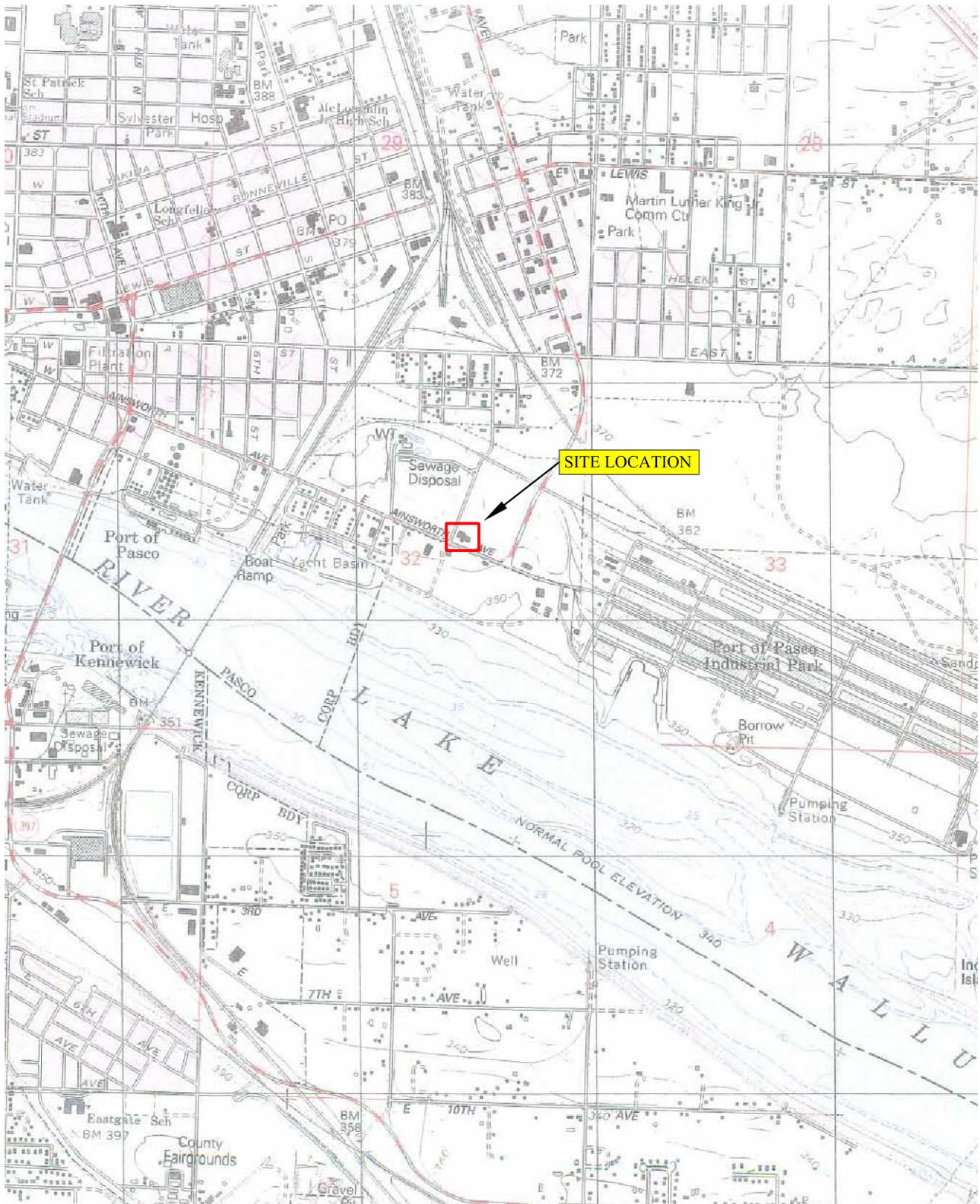
FIGURE 3  
INTERIOR LAYOUT OF ADMINISTRATION BUILDING  
PFC DANIEL L. WAGENAAR USARC-WA024  
1011 E. AINSWORTH ST.  
PASCO, WASHINGTON



SCALE: 1" = 12'  
APPROXIMATE SCALE

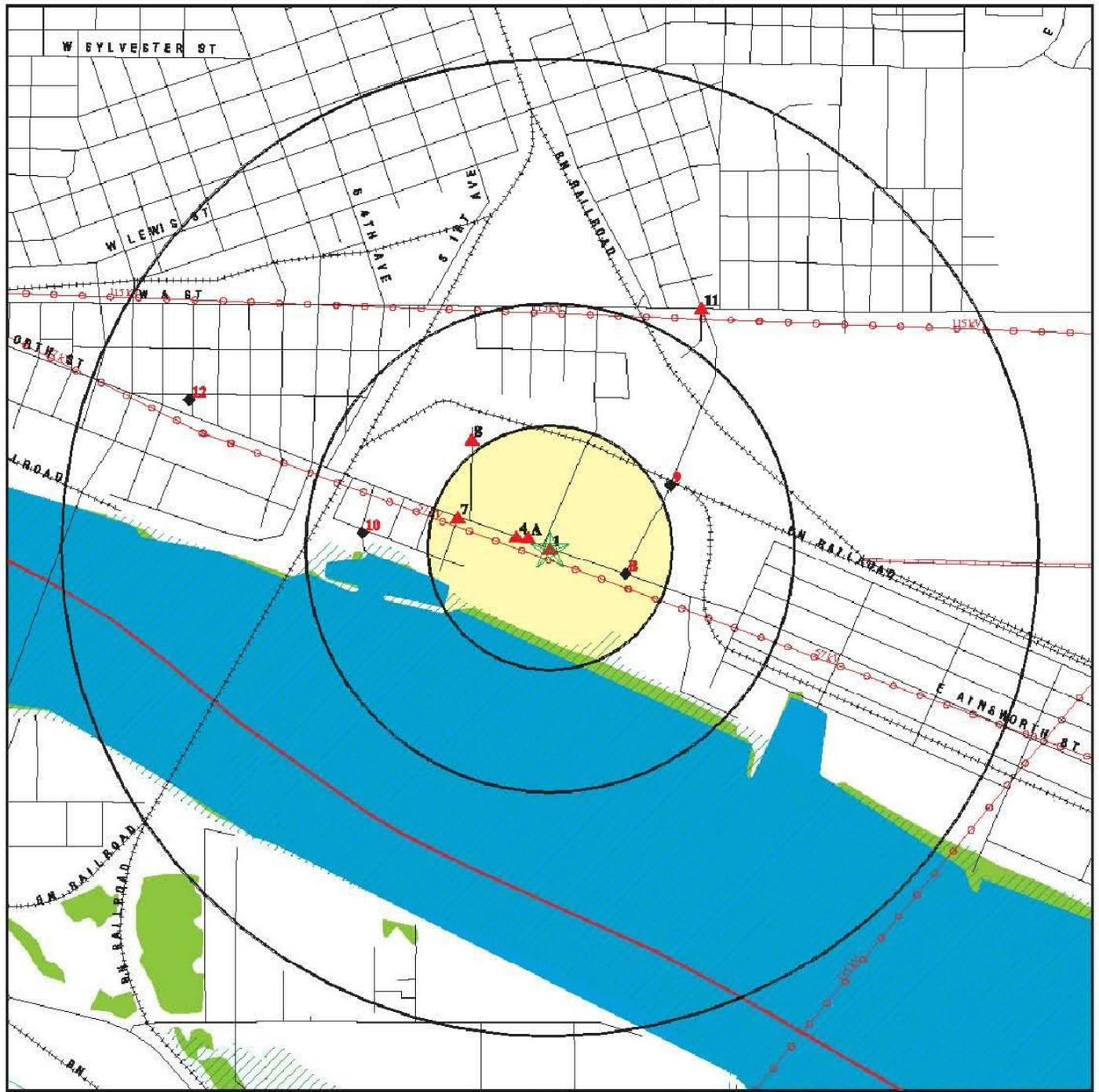


FIGURE 4  
INTERIOR LAYOUT OF OMS BUILDING  
PFC DANIEL L. WAGENAAR USARC-WA024  
1011 E. AINSWORTH ST.  
PASCO, WASHINGTON



SCALE: 1:24000  
 APPROXIMATE SCALE

FIGURE 5  
 1992 USGS 7.5-MINUTE TOPOGRAPHIC MAP  
 PFC DANIEL L. WAGENAAR USARC-WA024  
 1011 E. AINSWORTH ST.  
 PASCO, WASHINGTON

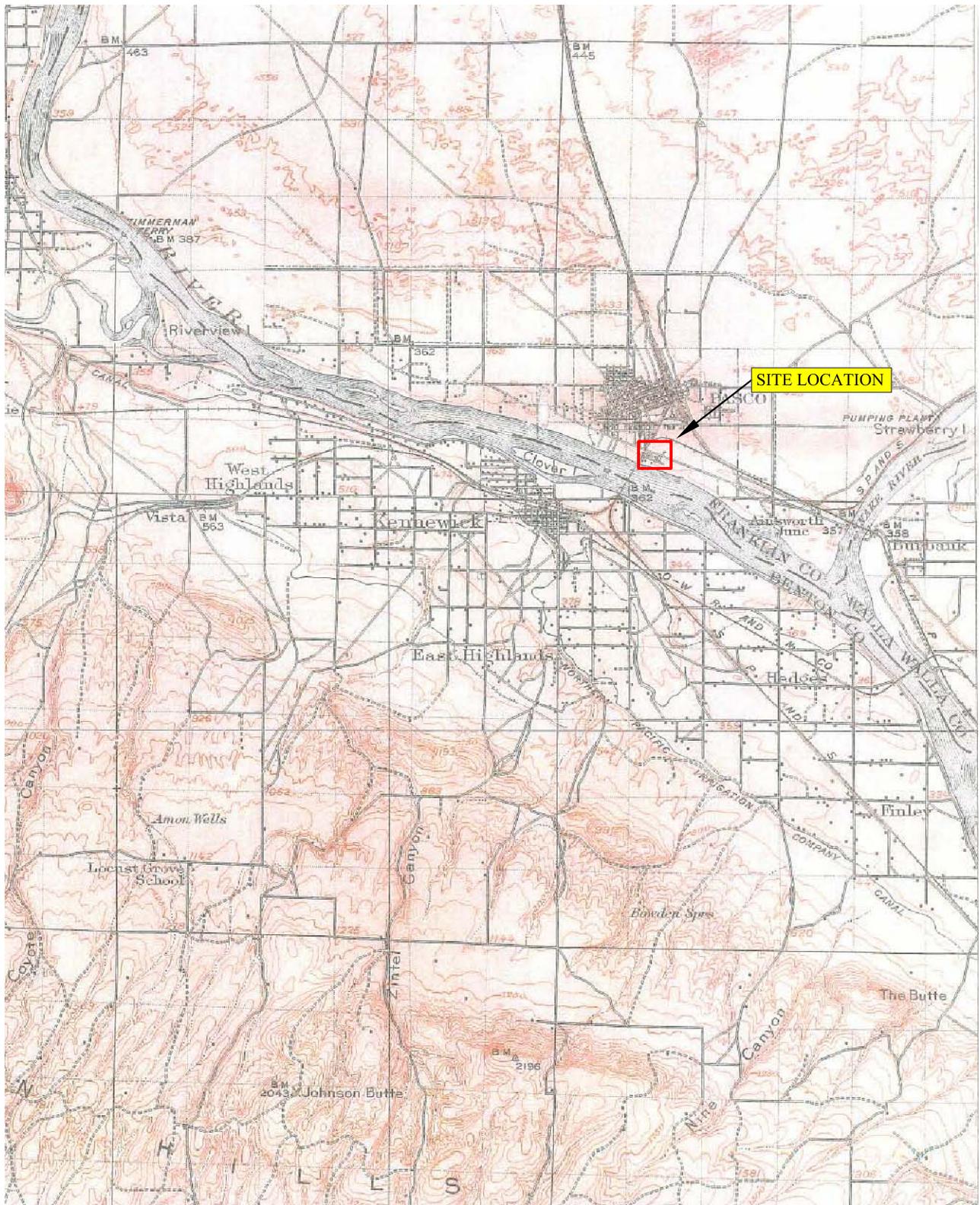


- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites
- ▨ Indian Reservations B/A
- ▨ County Boundary
- ▨ Power transmission lines
- ▨ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ National Wetland Inventory



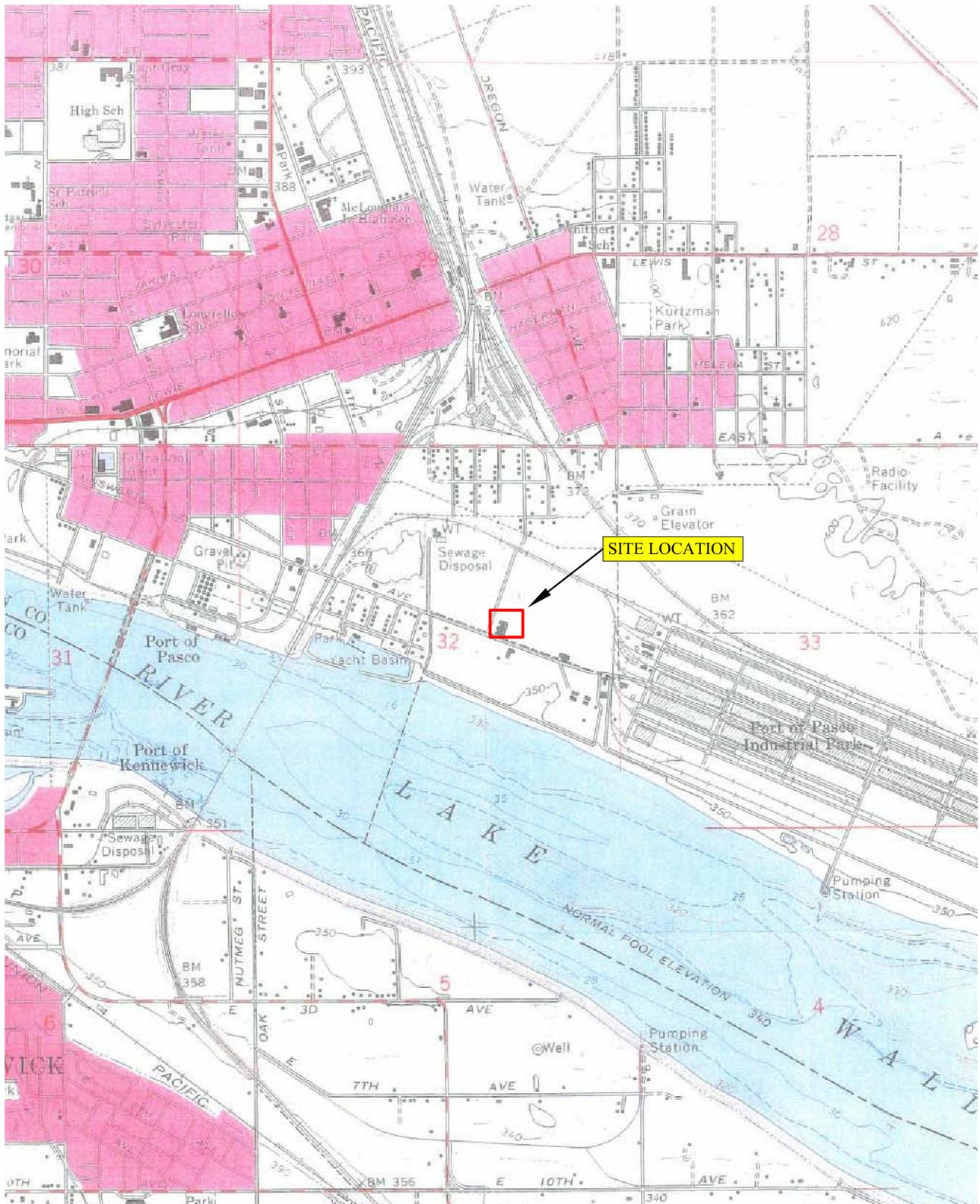
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

FIGURE 6  
EDR AREA OVERVIEW MAP WITH FLOOD ZONES, AND  
NATIONAL WETLAND INVENTORY INFORMATION  
PFC DANIEL L. WAGENAAR USARC-WA024  
1011 E. AINSWORTH ST.  
PASCO, WASHINGTON



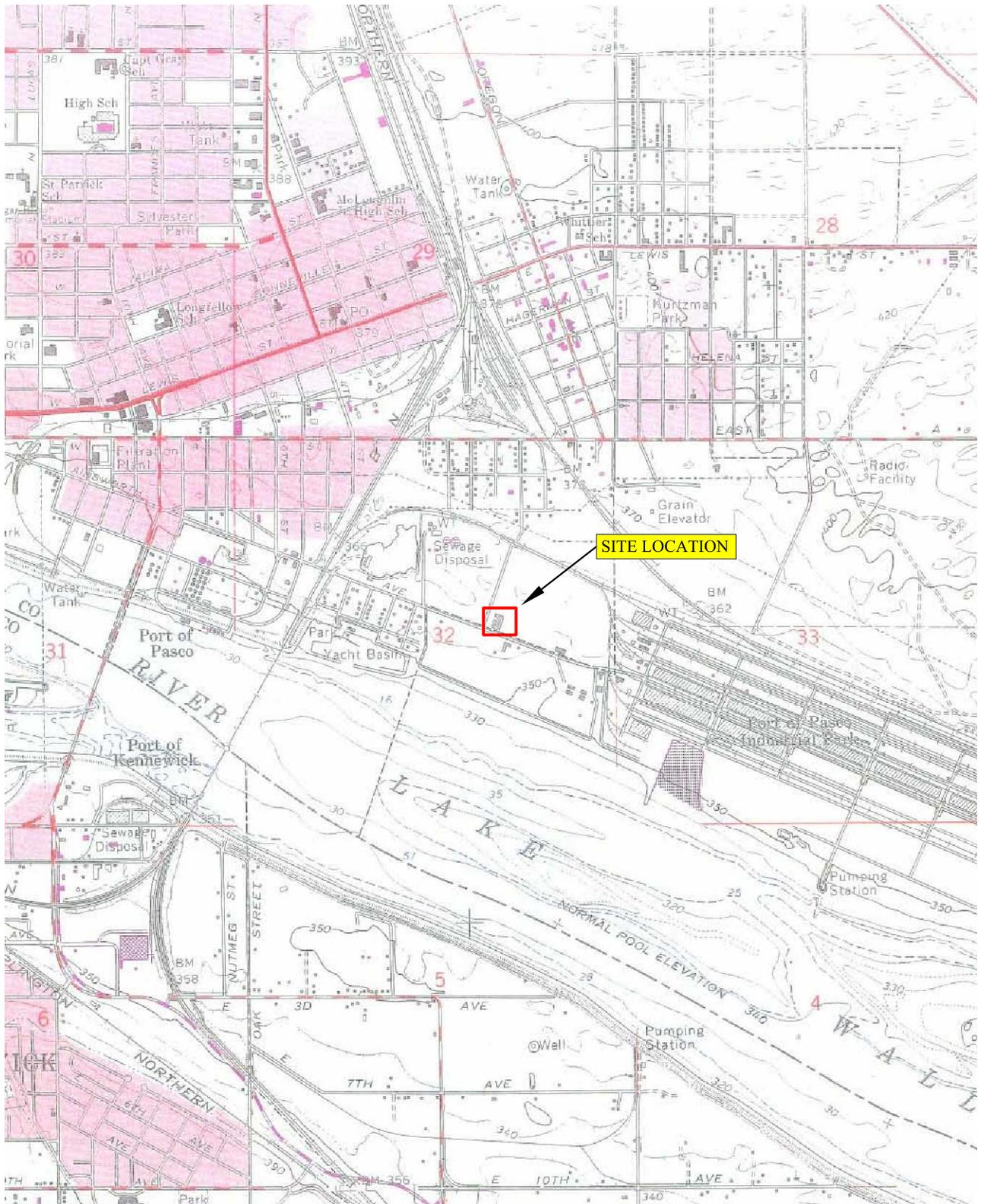
SCALE: 1:125000  
 APPROXIMATE SCALE

FIGURE 7  
 1917 USGS 30-MINUTE TOPOGRAPHIC MAP  
 PFC DANIEL L. WAGENAAR USARC-WA024  
 1011 E. AINSWORTH ST.  
 PASCO, WASHINGTON



SCALE: 1:124000  
 APPROXIMATE SCALE

FIGURE 8  
 1964 USGS 7.5-MINUTE TOPOGRAPHIC MAP  
 PFC DANIEL L. WAGENAAR USARC-WA024  
 1011 E. AINSWORTH ST.  
 PASCO, WASHINGTON



SCALE: 1:124000  
 APPROXIMATE SCALE

FIGURE 9  
 1973 USGS 7.5-MINUTE TOPOGRAPHIC MAP  
 PFC DANIEL L. WAGENAAR USARC-WA024  
 1011 E. AINSWORTH ST.  
 PASCO, WASHINGTON



SITE LOCATION



SCALE: 1" = 1,000'  
APPROXIMATE SCALE

FIGURE 10  
1978 AERIAL PHOTOGRAPH  
PFC DANIEL L. WAGENAAR USARC-WA024  
1011 E. AINSWORTH ST.  
PASCO, WASHINGTON



SCALE: 1"=500'  
APPROXIMATE SCALE

FIGURE 11  
1982 AERIAL PHOTOGRAPH  
PFC DANIEL L. WAGENAAR USARC-WA024  
1011 E. AINSWORTH ST.  
PASCO, WASHINGTON



SITE LOCATION



SCALE: 1"=500'  
APPROXIMATE SCALE

FIGURE 12  
1991 AERIAL PHOTOGRAPH  
PFC DANIEL L. WAGENAAR USARC-WA024  
1011 E. AINSWORTH ST.  
PASCO, WASHINGTON



SCALE: 1"=300'  
APPROXIMATE SCALE

FIGURE 13  
2004 AERIAL PHOTOGRAPH  
PFC DANIEL L. WAGENAAR USARC-WA024  
1011 E. AINSWORTH ST.  
PASCO, WASHINGTON



**Photograph 1. POV area on east side of USARC administration building**



**Photograph 2. POV area on east side of administration building**



**Photograph 3. Gravel MEP area with vehicles and OMS**



**Photograph 4. Gravel MEP area**



**Photograph 5. Security fence between OMS (left) and administration building**



**Photograph 6. Chain link and wire reinforced fence around administration building**



**Photograph 7. Landscaping on west side of administration building**



**Photograph 8. Gravel area by OMS**



**Photograph 9. Open space with scrub grasses and low growing vegetation**



**Photograph 10. South entrance of administration building**



**Photograph 11. South side of administration building**



**Photograph 12. West side of administration building**



**Photograph 13. East side of administration building**



**Photograph 14. North exterior of administration building**



**Photograph 15. Front entry area of administration building**



**Photograph 16. Main hallway in administration building**



**Photograph 17. Typical classroom setup in administration building**



**Photograph 18. Typical office setup in administration building**



**Photograph 19. Former indoor firing range, now weight and physical training room**



**Photograph 20. Pitting in block walls from former indoor firing range use**



**Photograph 21. Drill hall**



**Photograph 22. Interior of unit storage cage in drill hall area**



**Photograph 23. Interior of unit storage cage in drill hall area (water cans are empty)**



**Photograph 24. Weapons vault door**



**Photograph 25. Boiler in administration mechanical room**



**Photograph 26. Administration building air conditioning unit**



**Photograph 27. OMS exterior looking east**



**Photograph 28. OMS exterior looking south**



**Photograph 29. OMS exterior**



**Photograph 30. Relatively empty OMS interior**



Photograph 31. Fire proof cabinet in OMS



Photograph 32. Fire proof cabinet in OMS showing contents



Photograph 33. Fire proof cabinet in OMS with partially empty lubricating oil and antifreeze



Photograph 34. Grease trap at rear of administration building



**Photograph 35. Grass infiltration pond and overflow drywell (center)**



**Photograph 36. View of adjacent open space north of USAR Center**



**Photograph 37. Port of Pasco administration office south of USAR Center**



**Photograph 38. Wondrack Distributing gasoline station east of USAR Center**



**Photograph 39. M&M Bolt south east of USAR Center**



**Photograph 40. Safety Kleen southwest of USAR Center**



**Photograph 41. Rear of Safety Kleen southwest of USAR Center**



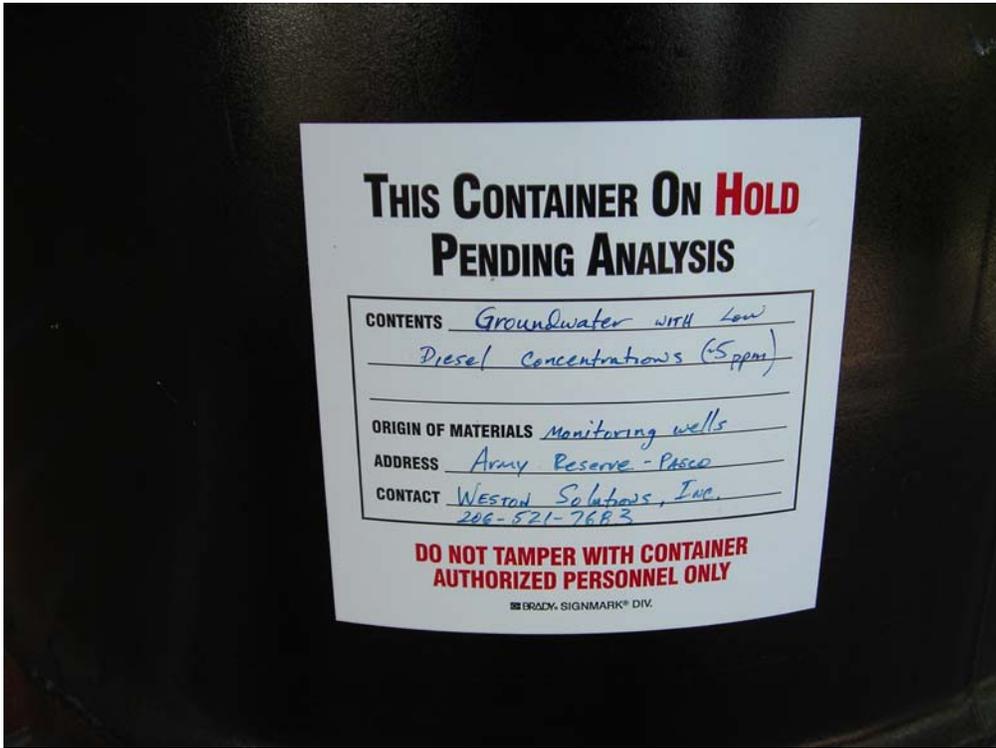
**Photograph 42. Cracked floor tile in administration building**



**Photograph 43. Torn insulation wrap on boiler piping**



**Photograph 44. Drum of waste groundwater from monitoring wells**



Photograph 45. Label on 55 gallon drum of wastewater from monitoring wells



2055 East Rio Salado Parkway, Suite 201  
Tempe, Arizona 85281  
Phone: (480) 967-6752  
Fax Number: (480) 966-9422  
Web Site: [www.netronline.com](http://www.netronline.com)

## **HISTORICAL CHAIN OF TITLE REPORT**

**PFC DANIEL L. WAGENAAR USARC  
1011 E AINSWORTH ST  
PASCO, WASHINGTON**

**Submitted to:**

**ENVIRONMENTAL DATA RESOURCES, INC.  
C/O  
FMSM ENGINEERS, INC.  
1901 Nelson Miller Parkway  
Louisville, Kentucky 40223  
(502) 212-5000**

**Attention: Robert Newman**

**Project No. N06-5246**

**Wednesday, September 13, 2006**

**NETR- Real Estate Research & Information** hereby submits the following ASTM historical chain-of-title to the land described below, subject to the leases/miscellaneous shown in Section 2. Title to the estate or interest covered by this report appears to be vested in:

UNITED STATES OF AMERICA

The following is the current property legal description:

Being that parcel or tract of land, situated and lying in Section 32, Township 9 North, Range 30 East of the Willamette Meridian in the City of Pasco, Franklin County, State of Washington

## **1. HISTORICAL CHAIN OF TITLE**

### 1. WARRANTY DEED:

RECORDED: 02-14-1906  
GRANTOR: Volney Cox & Mina Cox, his wife  
GRANTEE: Reisshard F. Falk  
INSTRUMENT: 2538

### 2. TREASURER'S TAX DEEDS:

RECORDED: 12-15-1936  
GRANTOR: C. B. Krudwig, as Treasurer of Franklin County in  
proceedings to foreclose tax liens upon real estate  
GRANTEE: Franklin County, Washington  
INSTRUMENT: 79481

### 3. DECLARATION OF TAKING:

RECORDED: 05-29-1943  
GRANTOR: United States District Judge, as to all owners of record  
GRANTEE: United States of America  
INSTRUMENT: 97326

## **2. LEASES AND MISCELLANEOUS**

1. No institutional controls or engineering controls were found of record.

### **3. LIMITATION**

This report was prepared for the use of Environmental Data Resources, Inc., and FMSM Engineers, Inc., exclusively. This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. NETR- Real Estate Research & Information does not guarantee nor include any warranty of any kind whether expressed or implied, about the validity of all information included in this report since this information is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.



## **The EDR Environmental Lien Search Report**

**PFC DANIEL L. WAGENAAR USARC  
1011 E AINSWORTH ST  
PASCO, WASHINGTON**

**Wednesday, September 13, 2006**

**Project Number: L06-4543**

## **The Standard In Environmental Risk Management Information**

**440 Wheelers Farm Road  
Milford, Connecticut 06460**

**Nationwide Customer Service**

**Telephone: 1-800-352-0050  
Fax: 1-800-231-6802**

# ENVIRONMENTAL LIEN REPORT

The EDR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

## TARGET PROPERTY INFORMATION

### ADDRESS

**PFC DANIEL L. WAGENAAR USARC  
1011 E AINSWORTH ST  
PASCO, WASHINGTON**

## DEED INFORMATION

Type of Deed: WD  QCD  Other  DECLARATION OF TAKING

Title is vested in: United States of America

Title received from: United States District Judge, as to all owners of record

Deed Dated: 05-26-1943

Deed Recorded: 05-29-1943

Instrument No: 97326

## LEGAL DESCRIPTION

Description: Being that parcel or tract of land, situated and lying in Section 32, Township 9 North, Range 30 East of the Willamette Meridian in the City of Pasco, Franklin County, State of Washington

## ENVIRONMENTAL LIEN

Environmental Lien: Found  Not Found

1<sup>st</sup> Party:

2<sup>nd</sup> Party:

Recorded:

Book:

Page:

## OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found  Not Found

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

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"Linking Technology with Tradition"®

## Sanborn® Map Report

**Ship To:** Robert Newman  
FMSM Engineers  
1901 Nelson Miller  
Louisville, KY 40223

**Order Date:** 7/14/2006    **Completion Date:** 7/14/2006  
**Inquiry #:** 1715536.80  
**P.O. #:** NA  
**Site Name:** PFC DANIEL L. WAGENAAR USARC

**Customer Project:** USARC  
1022764WEI                      502-212-5039

**Address:** 1011 E. AINSWORTH ST  
**City/State:** PASCO, WA 99301  
**Cross Streets:**

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

**NO COVERAGE**

---

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report AS IS. Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.



**EDR**® Environmental  
Data Resources Inc

**The EDR-City Directory**  
*Abstract*

**PFC DANIEL L. WAGENAAR USARC**  
1011 E. AINSWORTH ST  
PASCO, WA 99301

**Inquiry Number: 1715536.83**

**Tuesday, July 18, 2006**

**The Standard in  
Environmental Risk  
Management Information**

440 Wheelers Farms Road  
Milford, Connecticut 06461

**Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

# EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

***Thank you for your business.***

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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## **SUMMARY**

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1965 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

**Date EDR Searched Historical Sources:** July 18, 2006

**Target Property:**

1011 E. AINSWORTH ST  
PASCO, WA 99301

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	Address Not Listed in Research Source	Polk's City Directory
1972	Address Not Listed in Research Source	Polk's City Directory
1977	Address Not Listed in Research Source	Polk's City Directory
1983	Address Not Listed in Research Source	Polk's City Directory
1989	US Army Reserves	Polk's City Directory
1993	US Army Reserves	Polk's City Directory
1999	Address Not Listed in Research Source	Polk's City Directory
2005	Army Reserve Recruiting	Polk's City Directory

**Adjoining Properties**

**SURROUNDING**

Multiple Addresses  
PASCO, WA 99301

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	<u>**E AINSWORTH ST**</u>	Polk's City Directory
	Address not listed in research source (900)	Polk's City Directory
	Address not listed in research source (904)	Polk's City Directory
	Address not listed in research source (1020)	Polk's City Directory
	No addresses 900-1199	Polk's City Directory
	<u>**S MAITLAND AVE**</u>	Polk's City Directory
	Address not listed in research source (1005)	Polk's City Directory
	Residence (1008)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1972	<b><u>**E AINSWORTH ST**</u></b>	Polk's City Directory
	Address not listed in research source (900)	Polk's City Directory
	Address not listed in research source (904)	Polk's City Directory
	Address not listed in research source (1020)	Polk's City Directory
	No addresses 900-1199	Polk's City Directory
	<b><u>**S MAITLAND AVE**</u></b>	Polk's City Directory
	Address not listed in research source (1005)	Polk's City Directory
	Vacant (1008)	Polk's City Directory
1977	<b><u>**E AINSWORTH ST**</u></b>	Polk's City Directory
	Address not listed in research source (900)	Polk's City Directory
	Address not listed in research source (904)	Polk's City Directory
	Address not listed in research source (1020)	Polk's City Directory
	No addresses 900-1199	Polk's City Directory
	<b><u>**S MAITLAND AVE**</u></b>	Polk's City Directory
	Address not listed in research source (1005)	Polk's City Directory
	Residence (1008)	Polk's City Directory
1983	<b><u>**E AINSWORTH ST**</u></b>	Polk's City Directory
	Address not listed in research source (900)	Polk's City Directory
	Port Of Pasco Industrial Park (904)	Polk's City Directory
	Address not listed in research source (1020)	Polk's City Directory
	No other addresses 900-1199	Polk's City Directory
	<b><u>**S MAITLAND AVE**</u></b>	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1983	Address not listed in research source (1005)	Polk's City Directory
	Vacant (1008)	Polk's City Directory
1989	<b><u>**E AINSWORTH ST**</u></b>	Polk's City Directory
	Address not listed in research source (900)	Polk's City Directory
	Port Of Pasco Industrial Park (904)	Polk's City Directory
	M & M Bolt Co (1020)	Polk's City Directory
	No other addresses 900-1199	Polk's City Directory
	<b><u>**S MAITLAND AVE**</u></b>	Polk's City Directory
	Address not listed in research source (1005)	Polk's City Directory
	Vacant (1008)	Polk's City Directory
1993	<b><u>**E AINSWORTH ST**</u></b>	Polk's City Directory
	Dyna Pak Div (900)	Polk's City Directory
	Mutli-Tenant Industrial Building (904)	Polk's City Directory
	M & M Bolt Co (1020)	Polk's City Directory
	No other addresses 900-1199	Polk's City Directory
	<b><u>**S MAITLAND AVE**</u></b>	Polk's City Directory
	Columbia Concrete Pumping (1005)	Polk's City Directory
	Vacant (1008)	Polk's City Directory
1999	<b><u>**E AINSWORTH ST**</u></b>	Polk's City Directory
	P C Power Contractors (904)	Polk's City Directory
	M & M Bolt Co (1020)	Polk's City Directory
	No other addresses 900-1199	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	<b><u>**S MAITLAND AVE**</u></b>	Polk's City Directory
	Columbia Pumping & Constn (1005)	Polk's City Directory
	Residence (1008)	Polk's City Directory
2005	<b><u>**E AINSWORTH ST**</u></b>	Polk's City Directory
	Port Of Pasco (904)	Polk's City Directory
	M & M Bolt Co (1020)	Polk's City Directory
	No other addresses 900-1199	Polk's City Directory
	<b><u>**S MAITLAND AVE**</u></b>	Polk's City Directory
	Columbia Concrete Pumping (1005)	Polk's City Directory
	Residence (1008)	Polk's City Directory



**EDR**® Environmental  
Data Resources Inc

## **The EDR Radius Map with GeoCheck®**

**PFC DANIEL L. WAGENAAR USARC  
1011 E. AINSWORTH ST  
PASCO, WA 99301**

**Inquiry Number: 01715536.79r**

**July 14, 2006**

## **The Standard in Environmental Risk Management Information**

440 Wheelers Farms Road  
Milford, Connecticut 06461

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [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

1011 E. AINSWORTH ST  
PASCO, WA 99301

### COORDINATES

Latitude (North): 46.219500 - 46° 13' 10.2"  
Longitude (West): 119.083200 - 119° 4' 59.5"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 339328.6  
UTM Y (Meters): 5120327.0  
Elevation: 369 ft. above sea level

## USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 46119-B1 PASCO, WA  
Most Recent Revision: 1992

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
WA DA FRANKLIN 1 WASTE PESTICID 1011 E AINSWORTH PASCO, WA 99301	RCRA-SQG FINDS	WAD988476560

## 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:

## FEDERAL RECORDS

**NPL**..... National Priority List  
**Proposed NPL**..... Proposed National Priority List Sites  
**Delisted NPL**..... National Priority List Deletions

## EXECUTIVE SUMMARY

<b>NPL RECOVERY</b>	Federal Superfund Liens
<b>CERCLIS</b>	Comprehensive Environmental Response, Compensation, and Liability Information System
<b>RCRA-TSDF</b>	Resource Conservation and Recovery Act Information
<b>RCRA-LQG</b>	Resource Conservation and Recovery Act Information
<b>ERNS</b>	Emergency Response Notification System
<b>HMIRS</b>	Hazardous Materials Information Reporting System
<b>US ENG CONTROLS</b>	Engineering Controls Sites List
<b>US INST CONTROL</b>	Sites with Institutional Controls
<b>DOD</b>	Department of Defense Sites
<b>FUDS</b>	Formerly Used Defense Sites
<b>US BROWNFIELDS</b>	A Listing of Brownfields Sites
<b>CONSENT</b>	Superfund (CERCLA) Consent Decrees
<b>ROD</b>	Records Of Decision
<b>UMTRA</b>	Uranium Mill Tailings Sites
<b>ODI</b>	Open Dump Inventory
<b>TRIS</b>	Toxic Chemical Release Inventory System
<b>TSCA</b>	Toxic Substances Control Act
<b>FTTS</b>	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
<b>SSTS</b>	Section 7 Tracking Systems
<b>ICIS</b>	Integrated Compliance Information System
<b>PADS</b>	PCB Activity Database System
<b>MLTS</b>	Material Licensing Tracking System
<b>MINES</b>	Mines Master Index File
<b>RAATS</b>	RCRA Administrative Action Tracking System

### STATE AND LOCAL RECORDS

<b>HSL</b>	Hazardous Sites List
<b>CSCSL NFA</b>	Confirmed & Contaminated Sites - No Further Action
<b>SWTIRE</b>	Solid Waste Tire Facilities
<b>AST</b>	Aboveground Storage Tank Locations
<b>SPILLS</b>	Reported Spills
<b>INST CONTROL</b>	Institutional Control Site List
<b>VCP</b>	Voluntary Cleanup Program Sites
<b>DRYCLEANERS</b>	Drycleaner List
<b>CDL</b>	Clandestine Drug Lab Contaminated Site List
<b>EMI</b>	Washington Emissions Data System
<b>INACTIVE DRYCLEANERS</b>	Inactive Drycleaners

### TRIBAL RECORDS

<b>INDIAN RESERV</b>	Indian Reservations
<b>INDIAN LUST</b>	Leaking Underground Storage Tanks on Indian Land
<b>INDIAN UST</b>	Underground Storage Tanks on Indian Land

### EDR PROPRIETARY RECORDS

<b>Manufactured Gas Plants</b>	EDR Proprietary Manufactured Gas Plants
<b>EDR Historical Auto Stations</b>	EDR Proprietary Historic Gas Stations
<b>EDR Historical Cleaners</b>	EDR Proprietary Historic Dry Cleaners

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

## EXECUTIVE SUMMARY

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.

### **FEDERAL RECORDS**

**CERCLIS-NFRAP:** Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/01/2006 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>SAFETY KLEEN SYSTEMS INC PASCO</i></b>	<b><i>814 E AINSWORTH</i></b>	<b><i>0 - 1/8 WNW 4</i></b>		<b><i>8</i></b>

**CORRACTS:** CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>SAFETY KLEEN SYSTEMS INC PASCO</i></b>	<b><i>814 E AINSWORTH</i></b>	<b><i>0 - 1/8 WNW 4</i></b>		<b><i>8</i></b>

**RCRAInfo:** 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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). 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. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/09/2006 has revealed that there is 1

## EXECUTIVE SUMMARY

RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>SAFETY KLEEN SYSTEMS INC PASCO</i></b>	<b><i>814 E AINSWORTH</i></b>	<b><i>0 - 1/8 WNW 4</i></b>		<b><i>8</i></b>

### STATE AND LOCAL RECORDS

**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 05/11/2006 has revealed that there are 2 CSCSL sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BNRR PASCO RAILYARD	OREGON / E A ST	1/2 - 1 NNE	11	18
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
PASCO BULK FUEL TERMINAL SITE	AINSWORTH / W 9TH	1/2 - 1 WNW	12	19

**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 10/01/2004 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>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
TOMMY'S AUTO WRECKING	904 S. OREGON	1/4 - 1/2 ENE	9	16

**LUST:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Ecology's Leaking Underground Storage Tanks Site List.

A review of the LUST list, as provided by EDR, and dated 03/08/2006 has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>WONDRACK DISTRIBUTING, INC.</i></b>	<b><i>919 E AINSWORTH</i></b>	<b><i>0 - 1/8 WNW A2</i></b>		<b><i>6</i></b>
<b><i>PASCO PUBLIC WORKS MAINT &amp; OP</i></b>	<b><i>1025 SOUTH GREY STREET</i></b>	<b><i>1/4 - 1/2 NW</i></b>	<b><i>8</i></b>	<b><i>15</i></b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
PORT OF PASCO - BIG PASCO	E AINSWORTH / A AVE	1/8 - 1/4 ESE	B6	14
<b><i>WATER WORLD MARINA INC.</i></b>	<b><i>1315 SO. 4TH AVE</i></b>	<b><i>1/4 - 1/2 W</i></b>	<b><i>10</i></b>	<b><i>17</i></b>

## EXECUTIVE SUMMARY

**UST:** The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Ecology's Statewide UST Site/Tank Report.

A review of the UST list, as provided by EDR, and dated 04/27/2006 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>WONDRACK DISTRIBUTING, INC.</b>	<b>919 E AINSWORTH</b>	<b>0 - 1/8 WNW A2</b>		<b>6</b>
PORT OF PASCO	NEAR BUILDING T-209	0 - 1/8 WNW A3		7
BASIN DISPOSAL INC	1203 S GREY	1/8 - 1/4 WNW 7		14

**MANIFEST:** Hazardous waste manifest information.

A review of the MANIFEST list, as provided by EDR, and dated 12/31/2004 has revealed that there is 1 MANIFEST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b>SAFETY KLEEN SYSTEMS INC PASCO</b>	<b>814 E AINSWORTH</b>	<b>0 - 1/8 WNW 4</b>		<b>8</b>

**ICR:** These are remedial action reports Ecology has received from either the owner or operator of the site. These actions have been conducted without department oversight or approval and are not under an order or decree.

A review of the ICR list, as provided by EDR, and dated 12/01/2002 has revealed that there is 1 ICR site within approximately 0.5 miles of the target property.

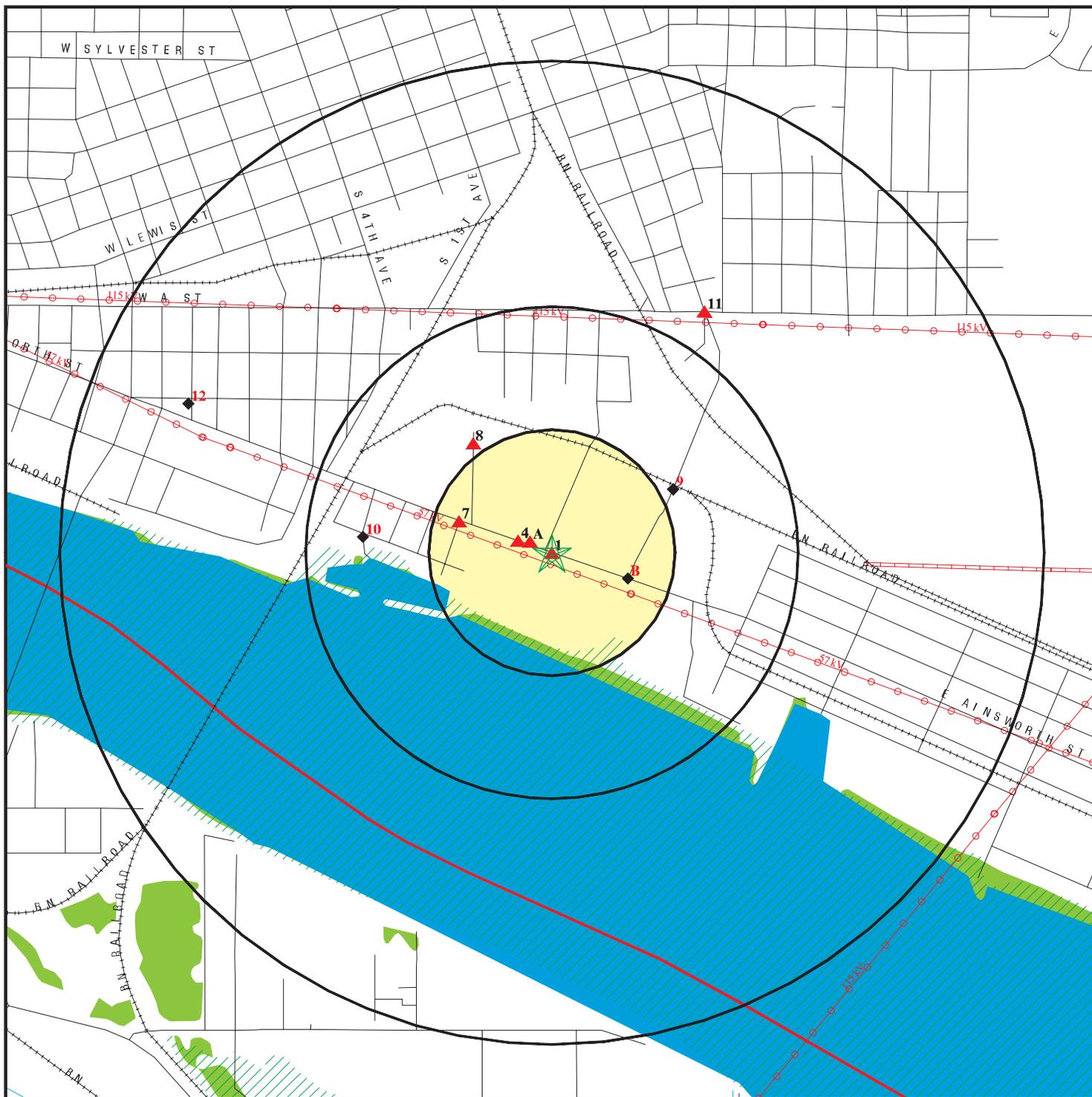
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
WONDRACK DISTRIBUTING, INC.	E. AINSWORTH / OREGON	1/8 - 1/4 ESE	B5	14

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
PASCO PORT	RCRA-SQG, FINDS, FTTS
AIR LIQUIDE AMERICA KENNEWICK	RCRA-SQG, CSCSL, FINDS
US ARMY RESERVE FACILITY	CSCSL
BONNEVILLE POWER ADMIN SI	CSCSL
BONNEVILLE POWER ADMIN IHD PASCO	CSCSL
SMITH CANYON HAZ WASTE SITE	CSCSL, FINDS
CENEX TRANSPORTATION PASCO TERMINAL	RCRA-SQG, CSCSL, FINDS, VCP, MANIFEST
SHOPPING SPOT 057	CSCSL, FINDS, LUST, VCP
ALLEGHENY INDUSTRIAL ELEC	RCRA-SQG, FINDS, CERC-NFRAP, CSCSL NFA
BIG PASCO INDUSTRIAL PARK	RCRA-SQG, FINDS, CERC-NFRAP
BNSF RAILROAD PCS FACILITY	SWF/LF
PASCO BULK FUEL TERMINAL SITE	FINDS, INST CONTROL
FARGHER LAKE GROCERY	LUST, UST, ICR
PORT OF PASCO - BIG PASCO	UST
RUST ENGINEERING CO	RCRA-SQG, FINDS
WA DOT SNAKE RIVER BRG 12512N	RCRA-SQG
MATLACK INC PASCO TANK FARM RD	RCRA-SQG, FINDS
US DOC USNMFS PASCO FIELD STATION	RCRA-SQG, FINDS, MANIFEST
SAFETY KLEEN SYSTEMS 904 E AINSWORTH	RCRA-SQG, FINDS, MANIFEST
EDS DISPOSAL INC	RCRA-SQG, FINDS
C & L CROP CARE	RCRA-SQG, FINDS
CITY OF PASCO PUBLIC WORKS - WASTEWATER TREATMENT	ICR
NORTHWEST PIPELINE - BURBANK METER STATION	ICR
OIL REFINING COMPANY	ICR

# OVERVIEW MAP - 01715536.79r



- ★ 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
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

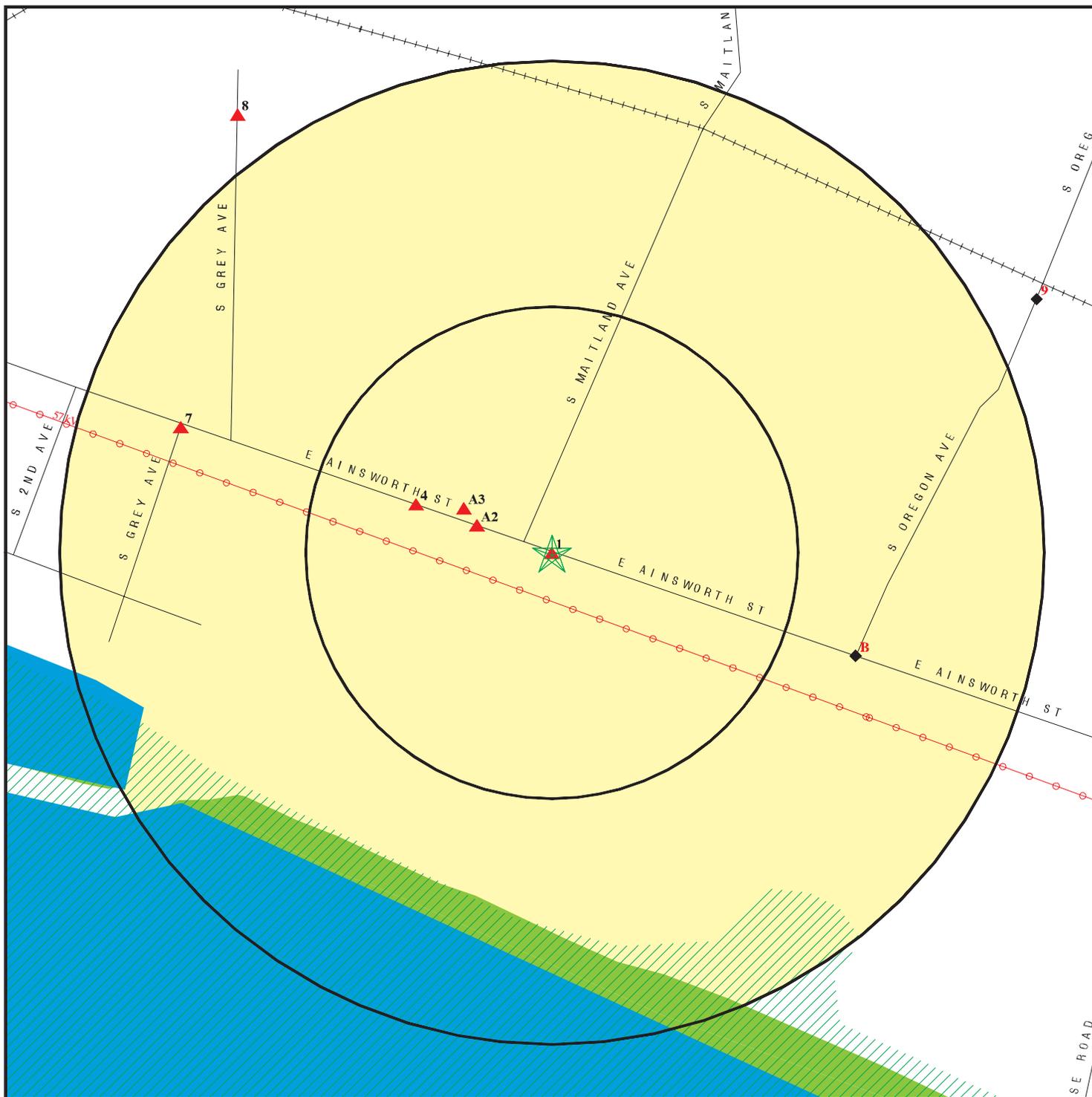


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: PFC DANIEL L. WAGENAAR USARC  
 ADDRESS: 1011 E. AINSWORTH ST  
 PASCO WA 99301  
 LAT/LONG: 46.2195 / 119.0832

CLIENT: FMSM Engineers  
 CONTACT: Robert Newman  
 INQUIRY #: 01715536.79r  
 DATE: July 14, 2006

# DETAIL MAP - 01715536.79r



- ★ 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
- ▨ Landfill Sites
- ▨ Dept. Defense Sites

- ▨ Indian Reservations BIA
  - ⚡ Power transmission lines
  - ⚡ Oil & Gas pipelines
  - ▨ 100-year flood zone
  - ▨ 500-year flood zone
  - National Wetland Inventory
- 0 1/16 1/8 1/4 Miles
- N

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

SITE NAME: PFC DANIEL L. WAGENAAR USARC  
 ADDRESS: 1011 E. AINSWORTH ST  
 PASCO WA 99301  
 LAT/LONG: 46.2195 / 119.0832

CLIENT: FMSM Engineers  
 CONTACT: Robert Newman  
 INQUIRY #: 01715536.79r  
 DATE: July 14, 2006

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL RECORDS</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	1	0	0	NR	NR	1
CORRACTS		1.000	1	0	0	0	NR	1
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.	X	0.250	1	0	NR	NR	NR	1
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	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
ODI		0.500	0	0	0	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
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
MINES		0.250	0	0	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE AND LOCAL RECORDS</u></b>								
CSCSL		1.000	0	0	0	2	NR	2
HSL		1.000	0	0	0	0	NR	0
CSCSL NFA		0.500	0	0	0	NR	NR	0
State Landfill		0.500	0	0	1	NR	NR	1
SWTIRE		0.500	0	0	0	NR	NR	0
LUST		0.500	1	1	2	NR	NR	4
UST		0.250	2	1	NR	NR	NR	3
AST		0.250	0	0	NR	NR	NR	0
MANIFEST		0.250	1	0	NR	NR	NR	1
SPILLS		TP	NR	NR	NR	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
ICR		0.500	0	1	0	NR	NR	1
DRYCLEANERS		0.250	0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CDL		TP	NR	NR	NR	NR	NR	0
WA Emissions		TP	NR	NR	NR	NR	NR	0
INACTIVE DRYCLEANERS		0.250	0	0	NR	NR	NR	0
<b><u>TRIBAL RECORDS</u></b>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<b><u>EDR PROPRIETARY RECORDS</u></b>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		TP	NR	NR	NR	NR	NR	0
EDR Historical Cleaners		TP	NR	NR	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  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**1**            **WA DA FRANKLIN 1 WASTE PESTICID**  
**Target**       **1011 E AINSWORTH**  
**Property**     **PASCO, WA 99301**

**RCRA-SQG**    **1000456131**  
**FINDS**        **WAD988476560**

**Actual:**  
**369 ft.**

RCRAInfo:  
 Owner:            WA DA  
 EPA ID:           WAD988476560  
  
 Contact:          LEE FAULCONER  
                       (360) 753-5064  
  
 Classification:   Small Quantity Generator  
 TSDF Activities: Not reported  
  
 Violation Status: No violations found

**FINDS:**

Other Pertinent Environmental Activity Identified at Site:  
 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.

**A2**  
**WNW**  
**< 1/8**  
**214 ft.**

**WONDRACK DISTRIBUTING, INC.**  
**919 E AINSWORTH**  
**PASCO, WA 99301**

**LUST**    **U000596330**  
**UST**      **N/A**

**Site 1 of 2 in cluster A**

**Relative:**  
**Higher**

**Actual:**  
**370 ft.**

LUST:  
 Facility ID:            12545  
 Facility Status:        Cleanup Started  
 Release ID:            472169  
 Release Notification Date: 10/7/1998 00:00:00  
 Release Status Date:   10/7/1998 00:00:00  
 Alternate Name:        Not reported  
 Lat/Lon:                46.21912 / -119.08027  
 Affected Media:        Soil  
 FS ID:                  58961816  
 Site Response Code Unit: EA  
  
 Facility ID:            12545  
 Facility Status:        Reported Cleaned Up  
 Release ID:            472169  
 Release Notification Date: 10/7/1998 00:00:00  
 Release Status Date:   2/17/2006 00:00:00  
 Alternate Name:        Not reported  
 Lat/Lon:                46.21912 / -119.08027  
 Affected Media:        Soil  
 FS ID:                  58961816  
 Site Response Code Unit: EA

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

WONDRACK DISTRIBUTING, INC. (Continued)

Database(s)  
EPA ID Number

EDR ID Number  
EPA ID Number

U000596330

UST:

Facility ID: 58961816  
Site ID: 12545  
Install Date: 7/15/1985 00:00:00  
Capacity: 5,000 to 9,999 Gallons  
Status: Operational  
Tank Name: 2  
Substance: Unleaded Gasoline  
Compartment #: 1  
Tank ID: 31650  
Comartment ID: 32105  
Decimal Latitude: 46.21912  
Decimal Longitude: -119  
Ecology Region: EA

Facility ID: 58961816  
Site ID: 12545  
Install Date: 7/15/1985 00:00:00  
Capacity: 5,000 to 9,999 Gallons  
Status: Operational  
Tank Name: 3  
Substance: Diesel  
Compartment #: 1  
Tank ID: 31869  
Comartment ID: 32327  
Decimal Latitude: 46.21912  
Decimal Longitude: -119  
Ecology Region: EA

Facility ID: 58961816  
Site ID: 12545  
Install Date: 7/15/1985 00:00:00  
Capacity: 5,000 to 9,999 Gallons  
Status: Operational  
Tank Name: 1  
Substance: Leaded Gasoline  
Compartment #: 1  
Tank ID: 31934  
Comartment ID: 32394  
Decimal Latitude: 46.21912  
Decimal Longitude: -119  
Ecology Region: EA

A3  
WNW  
< 1/8  
264 ft.  
Relative:  
Higher  
Actual:  
371 ft.

PORT OF PASCO  
NEAR BUILDING T-209  
PASCO, WA 99301  
Site 2 of 2 in cluster A

UST U001778093  
N/A

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation    Site

MAP FINDINGS

Database(s)    EDR ID Number  
 EPA ID Number

**PORT OF PASCO (Continued)**

**U001778093**

UST:

Facility ID:            39582757  
 Site ID:                102132  
 Install Date:         12/31/1964 00:00:00  
 Capacity:             111 TO 1,100 Gallons  
 Status:                Removed  
 Tank Name:            2  
 Substance:            Leaded Gasoline  
 Compartment #:       1  
 Tank ID:               43914  
 Comartment ID:       44531  
 Decimal Latitude:    46.27758  
 Decimal Longitude:   -119  
 Ecology Region:      EA

Facility ID:            39582757  
 Site ID:                102132  
 Install Date:         12/31/1964 00:00:00  
 Capacity:             111 TO 1,100 Gallons  
 Status:                Removed  
 Tank Name:            1  
 Substance:            Leaded Gasoline  
 Compartment #:       1  
 Tank ID:               43982  
 Comartment ID:       44599  
 Decimal Latitude:    46.27758  
 Decimal Longitude:   -119  
 Ecology Region:      EA

Facility ID:            39582757  
 Site ID:                102132  
 Install Date:         12/31/1964 00:00:00  
 Capacity:             5,000 to 9,999 Gallons  
 Status:                Removed  
 Tank Name:            3  
 Substance:            Used Oil/Waste Oil  
 Compartment #:       1  
 Tank ID:               44052  
 Comartment ID:       44669  
 Decimal Latitude:    46.27758  
 Decimal Longitude:   -119  
 Ecology Region:      EA

**4**  
**WNW**  
**< 1/8**  
**387 ft.**

**SAFETY KLEEN SYSTEMS INC PASCO**  
**814 E AINSWORTH**  
**PASCO, WA 99301**

**RCRA-SQG    1000224451**  
**FINDS        WAD980978746**  
**CORRACTS**  
**CERC-NFRAP**  
**MANIFEST**

**Relative:**  
**Higher**

CERCLIS-NFRAP Classification Data:  
 Federal Facility:    Not a Federal Facility  
 Non NPL Code:      NFRAP  
 NPL Status:         Not on the NPL

**Actual:**  
**371 ft.**

CERCLIS-NFRAP Assessment History:  
 Assessment:        DISCOVERY  
 Assessment:        PRELIMINARY ASSESSMENT  
 Assessment:        ARCHIVE SITE

Completed:        09/02/1992  
 Completed:        09/04/1992  
 Completed:        09/04/1992

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**SAFETY KLEEN SYSTEMS INC PASCO (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**1000224451**

CORRACTS Data:

EPA Id:	WAD980978746
Region:	10
Area Name:	ENTIRE FACILITY
Actual Date:	08/27/1992
Corrective Action:	CA225NR - Stabilization Measures Evaluation, This facility is , not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
2002 NAICS Title:	Other Commercial and Industrial Machinery and Equipment Rental and Leasing 42272 All Other Business Support Services
EPA Id:	WAD980978746
Region:	10
Area Name:	ENTIRE FACILITY
Actual Date:	09/19/1991
Corrective Action:	CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
2002 NAICS Title:	Other Commercial and Industrial Machinery and Equipment Rental and Leasing 42272 All Other Business Support Services
EPA Id:	WAD980978746
Region:	10
Area Name:	ENTIRE FACILITY
Actual Date:	12/15/1992
Corrective Action:	CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
2002 NAICS Title:	Other Commercial and Industrial Machinery and Equipment Rental and Leasing 42272 All Other Business Support Services
EPA Id:	WAD980978746
Region:	10
Area Name:	ENTIRE FACILITY
Actual Date:	12/30/1992
Corrective Action:	CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary
2002 NAICS Title:	Other Commercial and Industrial Machinery and Equipment Rental and Leasing 42272 All Other Business Support Services
EPA Id:	WAD980978746
Region:	10
Area Name:	ENTIRE FACILITY
Actual Date:	12/31/1992
Corrective Action:	CA999NF - Corrective Action Process Terminated, No Further Action
2002 NAICS Title:	Other Commercial and Industrial Machinery and Equipment Rental and Leasing 42272 All Other Business Support Services

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**SAFETY KLEEN SYSTEMS INC PASCO (Continued)**

**1000224451**

RCRAInfo Corrective Action Summary:

Event: Corrective Action Process Terminated, No Further Action  
 Event Date: 12/31/1992

Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;  
 Event Date: 12/30/1992

Event: CA Prioritization, Facility or area was assigned a low corrective action priority.  
 Event Date: 12/15/1992

Event: Stabilization Measures Evaluation, This facility is not amenable to stabilization activity at the present time for reasons other than 1) it appears to be technically infeasible or inappropriate (NF) or 2) there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.  
 Event Date: 08/27/1992

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.  
 Event Date: 09/19/1991

RCRAInfo:

Owner: SAFETY KLEEN CORP  
 (847)697-8460  
 EPA ID: WAD980978746  
 Contact: Not reported  
 Classification: Small Quantity Generator  
 TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: -240(6)(j)  
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS  
 Date Violation Determined: 09/12/2001  
 Actual Date Achieved Compliance: 09/13/2001  
 Enforcement Action: WRITTEN INFORMAL  
 Enforcement Action Date: 10/30/2001  
 Penalty Type: Not reported

Regulation Violated: -200(2)(a)  
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS  
 Date Violation Determined: 09/12/2001  
 Actual Date Achieved Compliance: 09/19/2001  
 Enforcement Action: WRITTEN INFORMAL  
 Enforcement Action Date: 10/30/2001  
 Penalty Type: Not reported

Regulation Violated: -016  
 Area of Violation: GENERATOR-GENERAL REQUIREMENTS  
 Date Violation Determined: 09/12/2001  
 Actual Date Achieved Compliance: Not reported  
 Enforcement Action: WRITTEN INFORMAL  
 Enforcement Action Date: 10/30/2001  
 Penalty Type: Not reported

Regulation Violated: -950(3)

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

**SAFETY KLEEN SYSTEMS INC PASCO (Continued)**

EDR ID Number  
 EPA ID Number

Database(s)

**1000224451**

Area of Violation:	GENERATOR-GENERAL REQUIREMENTS
Date Violation Determined:	09/12/2001
Actual Date Achieved Compliance:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	10/30/2001
Penalty Type:	Not reported
Regulation Violated:	-395 (4)
Area of Violation:	TSD-OTHER REQUIREMENTS
Date Violation Determined:	04/30/1992
Actual Date Achieved Compliance:	10/27/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	04/30/1992
Penalty Type:	Not reported
Regulation Violated:	-250 (1)
Area of Violation:	Transporter-manifest/record keeping requirements
Date Violation Determined:	04/30/1992
Actual Date Achieved Compliance:	10/27/1992
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	04/30/1992
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined:	01/18/1990
Actual Date Achieved Compliance:	05/21/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined:	01/18/1990
Actual Date Achieved Compliance:	05/21/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	01/18/1990
Actual Date Achieved Compliance:	05/21/1990
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	01/18/1990
Actual Date Achieved Compliance:	05/21/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/09/1990
Penalty Type:	Not reported

There are 10 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-GENERAL REQUIREMENTS	20010913
	GENERATOR-GENERAL REQUIREMENTS	20010919
	GENERATOR-GENERAL REQUIREMENTS	
	GENERATOR-GENERAL REQUIREMENTS	
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19921027
	Transporter-manifest/record keeping requirements	19921027
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19900521
	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19900521
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19900521

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

**SAFETY KLEEN SYSTEMS INC PASCO (Continued)**

EDR ID Number  
 EPA ID Number

Database(s)

TSD-OTHER REQUIREMENTS (OVERSIGHT)

**1000224451**  
 19900521

**FINDS:**

Other Pertinent Environmental Activity Identified at Site:

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

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.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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

**WA MANIFEST:**

Facility Site ID Number:	87313749
Permit by Rule:	False
Treatment by Generator:	False
Mixed radioactive waste:	False
Importer of hazardous waste:	False
Immediate recycler:	False
Treatment/Storage/Disposal/Recycling Facility:	False
Generator of dangerous fuel waste:	False
Generator marketing to burner:	False
"Other marketers (i.e., blender, distributor, etc.)":	False
Utility boiler burner:	False
Industry boiler burner:	False
Industrial Furnace:	False
Smelter deferral:	False
Universal waste - batteries - generate:	False
Universal waste - thermostats - generate:	False
Universal waste - mercury - generate:	False
Universal waste - lamps - generate:	False
Universal waste - batteries - accumulate:	False
Universal waste - thermostats - accumulate:	False
Universal waste - mercury - accumulate:	False
Universal waste - lamps - accumulate:	False
Destination Facility for Universal Waste:	False
Off-specification used oil burner - utility boiler:	False
Off-specification used oil burner - industrial boiler:	False
Off-specification used oil burner - industrial furnace:	False
EPA ID:	WAD980978746
Facility Address 2:	Not reported
TAX REG NBR:	600010774
NAICS CD:	532490
BUSINESS TYPE:	equipment leasing HW tran
MAIL NAME:	Safety Kleen Systems Inc Pasco
MAIL ADDR LINE1:	814 E Ainsworth
MAIL CITY,ST,ZIP:	PASCO, WA 99301
MAIL COUNTRY:	UNITED STATES
LEGAL ORG NAME:	Safety Kleen Systems Inc

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**SAFETY KLEEN SYSTEMS INC PASCO (Continued)**

**1000224451**

LEGAL ORG TYPE: Private  
LEGAL ADDR LINE1: 5400 LEGACY DRIVE  
LEGAL ADDR LINE2: CLUSTER 2, BLDG 3  
LEGAL CITY,ST,ZIP: PLANO, TX 75024  
LEGAL COUNTRY: UNITED STATES  
LEGAL PHONE NBR: 972-265-2000  
LEGAL EFFECTIVE DATE: 07/01/85  
LAND ORG NAME: Port of Pasco  
LAND ORG TYPE: County  
LAND PERSON NAME: Not reported  
LAND ADDR LINE1: PO Box 769  
LAND CITY,ST,ZIP: Pasco, WA 99301  
LAND COUNTRY: UNITED STATES  
LAND PHONE NBR: 509-547-3378  
OPERATOR ORG NAME: Safety Kleen Systems Inc  
OPERATOR ORG TYPE: Private  
OPERATOR ADDR LINE1: 814 East Ainsworth  
OPERATOR CITY,ST,ZIP: Pasco, WA 99301  
OPERATOR COUNTRY: UNITED STATES  
OPERATOR PHONE NBR: (509)547-8771  
OPERATOR EFFECTIVE DATE: / /  
SITE CONTACT NAME: Mike Kendall  
SITE CONTACT ADDR LINE1: 814 East Ainsworth  
SITE CONTACT ZIP: Pasco, WA 99301  
SITE CONTACT COUNTRY: UNITED STATES  
SITE CONTACT PHONE NBR: (509)547-8771  
SITE CONTACT EMAIL: Not reported  
FORM CONTACT NAME: ben Smith  
FORM CONTACT ADDR LINE1: 1502 E. Villa St  
FORM CONTACT ADDR LINE2: 2nd Floor  
FORM CONTACT CITY,ST,ZIP: ELGIN, IL 60120  
FORM CONTACT COUNTRY: UNITED STATES  
FORM CONTACT PHONE NBR: (847)468-6722  
FORM CONTACT EMAIL: ben.smith@safety-kleen.com  
GEN STATUS CD: SQG  
MONTHLY GENERATION: False  
BATCH GENERATION: True  
ONE TIME GENERATION: False  
TRANSPORTS OWN WASTE: True  
TRANSPORTS OTHRS WASTE: True  
RECYCLER ONSITE: False  
TRANSFER FACILITY: True  
OTHER EXEMPTION: Not reported  
UW BATTERY GEN: False  
USED OIL TRANSPORTER: True  
USED OIL TRANSFER FACILITY: True  
USED OIL PROCESSOR: False  
USED OIL REREFINER: False  
USED OIL FUEL MRKTR DIRECTS SHPMNTS: False  
USED OIL FUEL MRKTR MEETS SPECS: False

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**B5**            **WONDRACK DISTRIBUTING, INC.**  
**ESE**           **E. AINSWORTH / OREGON AVE.**  
**1/8-1/4**       **PASCO, WA 99301**  
**860 ft.**

**ICR**    **S105454211**  
**N/A**

**Site 1 of 2 in cluster B**

**Relative:**  
**Lower**

WA ICR:  
 Date Ecology Received Report: 12/30/1998  
 Contaminants Found at Site: Petroleum products  
 Media Contaminated: Soil  
 Cause of Contamination: Tank  
 Region: Eastern  
 Type of Report Ecology Received: Interim cleanup report  
 Site Register Issue: 98-13  
 County Code: 11.00000  
 Contact: Not reported  
 Report Title: Not reported

**Actual:**  
**362 ft.**

**B6**            **PORT OF PASCO - BIG PASCO**  
**ESE**           **E AINSWORTH / A AVE**  
**1/8-1/4**       **PASCO, WA 99301**  
**860 ft.**

**LUST**    **U001125849**  
**N/A**

**Site 2 of 2 in cluster B**

**Relative:**  
**Lower**

LUST:  
 Facility ID: 9274  
 Facility Status: Cleanup Started  
 Release ID: 5083  
 Release Notification Date: 11/19/1993 00:00:00  
 Release Status Date: 8/24/1993 00:00:00  
 Alternate Name: PORT OF PASCO - BIG PASCO  
 Lat/Lon: 46.2177 / -119.074967  
 Affected Media: Soil  
 FS ID: 19223332  
 Site Response Code Unit: EA

Facility ID: 9274  
 Facility Status: Reported Cleaned Up  
 Release ID: 5083  
 Release Notification Date: 11/19/1993 00:00:00  
 Release Status Date: 11/19/1993 00:00:00  
 Alternate Name: PORT OF PASCO - BIG PASCO  
 Lat/Lon: 46.2177 / -119.074967  
 Affected Media: Soil  
 FS ID: 19223332  
 Site Response Code Unit: EA

**Actual:**  
**362 ft.**

**7**             **BASIN DISPOSAL INC**  
**WNW**         **1203 S GREY**  
**1/8-1/4**       **PASCO, WA 99301**  
**1051 ft.**

**UST**    **U001121836**  
**N/A**

**Relative:**  
**Higher**

**Actual:**  
**370 ft.**

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation    Site

MAP FINDINGS

Database(s)    EDR ID Number  
 EPA ID Number

**BASIN DISPOSAL INC (Continued)**

**U001121836**

UST:

Facility ID:            15374719  
 Site ID:                68  
 Install Date:         12/31/1964 00:00:00  
 Capacity:             Not reported  
 Status:                Removed  
 Tank Name:            #1  
 Substance:            Not reported  
 Compartment #:      1  
 Tank ID:               36089  
 Comartment ID:      36602  
 Decimal Latitude:    46.22025  
 Decimal Longitude:   -119  
 Ecology Region:     EA

Facility ID:            15374719  
 Site ID:                68  
 Install Date:         12/31/1964 00:00:00  
 Capacity:             Not reported  
 Status:                Removed  
 Tank Name:            #2  
 Substance:            Leaded Gasoline  
 Compartment #:      1  
 Tank ID:               36164  
 Comartment ID:      36677  
 Decimal Latitude:    46.22025  
 Decimal Longitude:   -119  
 Ecology Region:     EA

**8  
 NW  
 1/4-1/2  
 1447 ft.**

**PASCO PUBLIC WORKS MAINT & OP FACILITY  
 1025 SOUTH GREY STREET  
 PASCO, WA 99301**

**LUST    U003025713  
 UST     N/A**

**Relative:  
 Higher**

LUST:

Facility ID:            11890  
 Facility Status:        Cleanup Started  
 Release ID:            4411  
 Release Notification Date: 5/24/1991 00:00:00  
 Release Status Date:   5/24/1991 00:00:00  
 Alternate Name:        PASCO MAINTENANCE SHOP  
 Lat/Lon:               46.2226 / -119.08659  
 Affected Media:        Soil  
 FS ID:                  73564368  
 Site Response Code Unit: EA

**Actual:  
 376 ft.**

Facility ID:            11890  
 Facility Status:        Reported Cleaned Up  
 Release ID:            4411  
 Release Notification Date: 5/24/1991 00:00:00  
 Release Status Date:   5/22/2002 00:00:00  
 Alternate Name:        PASCO MAINTENANCE SHOP  
 Lat/Lon:               46.2226 / -119.08659  
 Affected Media:        Soil  
 FS ID:                  73564368  
 Site Response Code Unit: EA

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**PASCO PUBLIC WORKS MAINT & OP FACILITY (Continued)**

**U003025713**

UST:

Facility ID: 73564368  
 Site ID: 11890  
 Install Date: 12/31/1964 00:00:00  
 Capacity: Not reported  
 Status: Removed  
 Tank Name: 1-OLD GAS  
 Substance: Not reported  
 Compartment #: 1  
 Tank ID: 27952  
 Comartment ID: 28327  
 Decimal Latitude: 46.22260  
 Decimal Longitude: -119  
 Ecology Region: EA

Facility ID: 73564368  
 Site ID: 11890  
 Install Date: 12/31/1964 00:00:00  
 Capacity: 111 TO 1,100 Gallons  
 Status: Removed  
 Tank Name: 2-USED OIL  
 Substance: Used Oil/Waste Oil  
 Compartment #: 1  
 Tank ID: 5914  
 Comartment ID: 6022  
 Decimal Latitude: 46.22260  
 Decimal Longitude: -119  
 Ecology Region: EA

**9**  
**ENE**  
**1/4-1/2**  
**1467 ft.**

**TOMMY'S AUTO WRECKING**  
**904 S. OREGON**  
**PASCO, WA 99301**

**SWF/LF S106031622**  
**N/A**

**Relative:**  
**Lower**

LF:

Facility ID: EFTA  
 Contact: Leonard Moore  
 Name Change: False  
 Ownership: Private  
 Type: Recycling Facility  
 Company: Tommy's Auto Wrecking  
 Contact Title: Not reported  
 Facility Phone: Not reported  
 Facility Fax: Not reported  
 Class Code: T  
 Class: Intermediate  
 Class Type: False  
 Sec/Twn/Rng: Not reported  
 Class Comment: Not reported  
 Region: STATE  
 Status: Not reported

**Actual:**  
**363 ft.**

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**10**      **WATER WORLD MARINA INC.**  
**West**    **1315 SO. 4TH AVE**  
**1/4-1/2**   **PASCO, WA 99301**  
**2032 ft.**

**LUST**    **U001122781**  
**UST**      **N/A**

**Relative:**  
**Lower**

**LUST:**

**Actual:**  
**364 ft.**

Facility ID:            2523  
 Facility Status:        Cleanup Started  
 Release ID:            5233  
 Release Notification Date: 5/19/1994 00:00:00  
 Release Status Date:   5/19/1994 00:00:00  
 Alternate Name:        Not reported  
 Lat/Lon:                46.21936 / -119.09136  
 Affected Media:        Soil  
 FS ID:                  10732579  
 Site Response Code Unit: EA

Facility ID:            2523  
 Facility Status:        Reported Cleaned Up  
 Release ID:            5233  
 Release Notification Date: 5/19/1994 00:00:00  
 Release Status Date:   8/29/2000 00:00:00  
 Alternate Name:        Not reported  
 Lat/Lon:                46.21936 / -119.09136  
 Affected Media:        Soil  
 FS ID:                  10732579  
 Site Response Code Unit: EA

**UST:**

Facility ID:            10732579  
 Site ID:                2523  
 Install Date:          12/31/1964 00:00:00  
 Capacity:              Not reported  
 Status:                Removed  
 Tank Name:            2  
 Substance:            Leaded Gasoline  
 Compartment #:        1  
 Tank ID:               2859  
 Comartment ID:        2908  
 Decimal Latitude:     46.21936  
 Decimal Longitude:   -119  
 Ecology Region:       EA

Facility ID:            10732579  
 Site ID:               2523  
 Install Date:          12/31/1964 00:00:00  
 Capacity:              Not reported  
 Status:                Removed  
 Tank Name:            1  
 Substance:            Leaded Gasoline  
 Compartment #:        1  
 Tank ID:               2749  
 Comartment ID:        2798  
 Decimal Latitude:     46.21936  
 Decimal Longitude:   -119  
 Ecology Region:       EA

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**WATER WORLD MARINA INC. (Continued)**

**U001122781**

Facility ID: 10732579  
 Site ID: 2523  
 Install Date: 12/31/1964 00:00:00  
 Capacity: Not reported  
 Status: Removed  
 Tank Name: 3  
 Substance: Used Oil/Waste Oil  
 Compartment #: 1  
 Tank ID: 2715  
 Comartment ID: 2764  
 Decimal Latitude: 46.21936  
 Decimal Longitude: -119  
 Ecology Region: EA

11  
 NNE  
 1/2-1  
 3063 ft.

**BNRR PASCO RAILYARD  
 OREGON / E A ST  
 PASCO, WA 99301**

**CSCSL S102258012  
 N/A**

**Relative:  
 Higher**

**SHWS:**

**Actual:  
 380 ft.**

Facility ID: 591  
 MTBE Code: Not reported  
 Prog plan code : Not reported  
 UXO Code : Not reported  
 Lat/Long : 46.22692 / -119.07677  
 Responsible Unit: Eastern Region  
 Ecology Site Status relative to the MTCA cleanup process:  
     Independent Remedial Action  
 Independent Site Status - those sites undergoing an independent cleanup:  
     Independent Site Assessment of Interim Remedial Action Report received  
 WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):  
 Affected Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has  
     been confirmed by laboratory analysis (or field determination in the case of  
     petroleum contamination)  
 Affected Media : Soil  
 Arsenic Code: Not reported  
 Base/Neutral/Acid Organics: Not reported  
 Halogenated Organic Compounds: Not reported  
 EPA Priority Pollutants - Metals and Cyanide: Not reported  
 Metals - Other non-priority pollutant medals: Not reported  
 Polychlorinated biPhenyls (PCBs): Not reported  
 Pesticides: Not reported  
 Petroleum Products: Confirmed above MTCA cleanup levels  
 Phenolic Compounds: Not reported  
 Non-Halogenated Solvents: Not reported  
 Dioxin: Not reported  
 Polynuclear Aromatic Hydrocarbons (PAH): Not reported  
 Reactive Wastes: Not reported  
 Corrosive Wastes: Not reported  
 Radioactive Wastes: Not reported  
 Asbestos: Not reported  
 Conventional Contaminants, Organic: Not reported  
 Conventional Contaminants, Inorganic: Not reported  
 Lat/Long : 46° 13' 36" / 119° 4' 36"  
 Media Id : 1004  
 Media Type Description : Confirmed  
 Media Status Description : Soil  
 Tributyl Tin Contaminant Group : Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**BNRR PASCO RAILYARD (Continued)**

**S102258012**

Bioassay/benthic Failures Contam group :	Not reported
Wood Debris Contaminant Group :	Not reported
Other Deleterious Substance Group :	Not reported
Facility ID:	591
MTBE Code:	Not reported
Prog plan code :	Not reported
UXO Code :	Not reported
Lat/Long :	46.22692 / -119.07677
Responsible Unit:	Eastern Region
Ecology Site Status relative to the MTCA cleanup process:	Independent Remedial Action
Independent Site Status - those sites undergoing an independent cleanup:	Independent Site Assessment of Interim Remedial Action Report received
WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):	
Affected Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)	
Affected Media :	Ground Water
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Not reported
Halogenated Organic Compounds:	Not reported
EPA Priority Pollutants - Metals and Cyanide:	Not reported
Metals - Other non-priority pollutant medals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Not reported
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported
Lat/Long :	46° 13' 36" / 119° 4' 36"
Media Id :	1005
Media Type Description :	Confirmed
Media Status Description :	Groundwater
Tibutyl Tin Contaminant Group :	Not reported
Bioassay/benthic Failures Contam group :	Not reported
Wood Debris Contaminant Group :	Not reported
Other Deleterious Substance Group :	Not reported

12  
 WNW  
 1/2-1  
 4216 ft.

**PASCO BULK FUEL TERMINAL SITE  
 AINSWORTH / W 9TH  
 PASCO, WA 99301**

**CSCSL S102258273  
 N/A**

**Relative:  
 Lower**

SHWS:  
 Facility ID: 579  
 MTBE Code: Not reported  
 Prog plan code : 2  
 UXO Code : Not reported  
 Lat/Long : 46.22350999999997 / -119.09912  
 Responsible Unit: Eastern Region  
 Ecology Site Status relative to the MTCA cleanup process:  
 Remedial Action in progress

**Actual:  
 368 ft.**

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**PASCO BULK FUEL TERMINAL SITE (Continued)**

**S102258273**

Independent Site Status - those sites undergoing an independent cleanup:  
 Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):  
 Affected Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)

Affected Media : Ground Water  
 Arsenic Code: Not reported

Base/Neutral/Acid Organics:	Suspected to be present
Halogenated Organic Compounds:	Suspected to be present
EPA Priority Pollutants - Metals and Cyanide:	Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant medals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Confirmed above MTCA cleanup levels
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Suspected to be present
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported

Lat/Long : 46° 13' 24" / 119° 5' 56"

Media Id :	988
Media Type Description :	Confirmed
Media Status Description :	Groundwater
Tibutyl Tin Contaminant Group :	Not reported
Bioassay/benthic Failures Contam group :	Not reported
Wood Debris Contaminant Group :	Not reported
Other Deleterious Substance Group :	Not reported

Facility ID: 579  
 MTBE Code: Not reported  
 Prog plan code : 2  
 UXO Code : Not reported  
 Lat/Long : 46.223509999999997 / -119.09912  
 Responsible Unit: Eastern Region  
 Ecology Site Status relative to the MTCA cleanup process:  
 Remedial Action in progress

Independent Site Status - those sites undergoing an independent cleanup:  
 Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):  
 Affected Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)

Affected Media : Surface Water  
 Arsenic Code: Not reported

Base/Neutral/Acid Organics:	Suspected to be present
Halogenated Organic Compounds:	Suspected to be present
EPA Priority Pollutants - Metals and Cyanide:	Suspected to be present
Metals - Other non-priority pollutant medals:	Not reported
Polychlorinated biPhenyls (PCBs):	Not reported
Pesticides:	Not reported
Petroleum Products:	Confirmed above MTCA cleanup levels

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**PASCO BULK FUEL TERMINAL SITE (Continued)**

**S102258273**

Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Not reported
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Suspected to be present
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported
Lat/Long :	46° 13' 24" / 119° 5' 56"
Media Id :	989
Media Type Description :	Confirmed
Media Status Description :	Surface Water
Tibutyl Tin Contaminant Group :	Not reported
Bioassay/benthic Failures Contam group :	Not reported
Wood Debris Contaminant Group :	Not reported
Other Deleterious Substance Group :	Not reported

Facility ID: 579  
 MTBE Code: Not reported  
 Prog plan code : 2  
 UXO Code : Not reported  
 Lat/Long : 46.22350999999997 / -119.09912  
 Responsible Unit: Eastern Region  
 Ecology Site Status relative to the MTCA cleanup process:  
     Remedial Action in progress  
 Independent Site Status - those sites undergoing an independent cleanup:  
     Not reported

WARM Bin Number indicates the outcome of the Washington Ranking Model (WARM):  
 Affected Media Status: C (Confirmed) - The presence of hazardous substances above MTCA cleanup levels has been confirmed by laboratory analysis (or field determination in the case of petroleum contamination)

Affected Media :	Soil
Arsenic Code:	Not reported
Base/Neutral/Acid Organics:	Suspected to be present
Halogenated Organic Compounds:	Suspected to be present
EPA Priority Pollutants - Metals and Cyanide:	Confirmed above MTCA cleanup levels
Metals - Other non-priority pollutant medals:	Not reported
Polychlorinated biPhenyls (PCBs):	Suspected to be present
Pesticides:	Suspected to be present
Petroleum Products:	Confirmed above MTCA cleanup levels
Phenolic Compounds:	Not reported
Non-Halogenated Solvents:	Confirmed above MTCA cleanup levels
Dioxin:	Not reported
Polynuclear Aromatic Hydrocarbons (PAH):	Suspected to be present
Reactive Wastes:	Not reported
Corrosive Wastes:	Not reported
Radioactive Wastes:	Not reported
Asbestos:	Not reported
Conventional Contaminants, Organic:	Not reported
Conventional Contaminants, Inorganic:	Not reported
Lat/Long :	46° 13' 24" / 119° 5' 56"
Media Id :	990
Media Type Description :	Confirmed
Media Status Description :	Soil
Tibutyl Tin Contaminant Group :	Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

**PASCO BULK FUEL TERMINAL SITE (Continued)**

Database(s) EDR ID Number  
EPA ID Number

**S102258273**

Bioassay/benthic Failures Contam group : Not reported  
Wood Debris Contaminant Group : Not reported  
Other Deleterious Substance Group : Not reported

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KENNEWICK	1005445144	AIR LIQUIDE AMERICA KENNEWICK	231808 E HWY 397	99337	RCRA-SQG, CSCSL, FINDS
PASCO	1000130316	RUST ENGINEERING CO	HWY 12	99301	RCRA-SQG, FINDS
PASCO	1000202448	ALLEGHENY INDUSTRIAL ELEC	HWY 12	99301	RCRA-SQG, FINDS, CERC-NFRAP, CSCSL NFA
PASCO	1007265293	WA DOT SNAKE RIVER BRG 12512N	SR 12 MP 294.51 TO 294.85	99301	RCRA-SQG
PASCO	1000275899	MATLACK INC PASCO TANK FARM RD	HWY 395 & TANK FARM RD	99301	RCRA-SQG, FINDS
PASCO	1000697150	US DOC USNMFS PASCO FIELD STATION	AINSWORTH AVENUE	99301	RCRA-SQG, FINDS, MANIFEST
PASCO	1001490508	PASCO PORT	904 E AINSWORTH PORT OF PASCO	99301	RCRA-SQG, FINDS, FTTS
PASCO	1005445318	SAFETY KLEEN SYSTEMS 904 E AINSWORTH	904 E AINSWORTH TRANSFER FACIL	99301	RCRA-SQG, FINDS, MANIFEST
PASCO	1007081115	PASCO BULK FUEL TERMINAL SITE	AINSWORTH & W 9TH	99301	FINDS, INST CONTROL
PASCO	U004020751	PORT OF PASCO - BIG PASCO	E AINSWORTH AND A AVE	99301	UST
PASCO	1000878697	BIG PASCO INDUSTRIAL PARK	AINSWORTH AV, T9N, R30E, SEC31	99301	RCRA-SQG, FINDS, CERC-NFRAP
PASCO	S104155857	BNSF RAILROAD PCS FACILITY	251 COMMERCIAL AVE. SUITE 2	99301	SWF/LF
PASCO	S103506539	CITY OF PASCO PUBLIC WORKS - WASTEWATER TREATMENT	NW CORNER OF AINSWORTH AND MAITLAND AVE.	99301	ICR
PASCO	S107566027	US ARMY RESERVE FACILITY	NE CORNER OF E AINSWORTH / S MAITLAND		CSCSL
PASCO	1004793690	EDS DISPOSAL INC	1210 S GREY EDS DISPOSAL	99301	RCRA-SQG, FINDS
PASCO	1001969484	C & L CROP CARE	KAHLOTUS HWY E	99301	RCRA-SQG, FINDS
PASCO	S101188597	BONNEVILLE POWER ADMIN SI	SE1/4 NE1/4 / NW1/4 SW1/4	99301	CSCSL
PASCO	S103398120	BONNEVILLE POWER ADMIN IHD PASCO	NW1/4 NW1/4 S24 T9N R31EWM	99301	CSCSL
PASCO	S105454391	NORTHWEST PIPELINE - BURBANK METER STATION	ONE MILE SW OF INTERSECT OF MCGREGOR RD / HWY 39	99301	ICR
PASCO	S105454554	OIL REFINING COMPANY	PORT OF PASCO, INTERSECTION OF 6TH / AINSWORTH	99301	ICR
PASCO	1007081082	SMITH CANYON HAZ WASTE SITE	T9N R30E S24 NW	99301	CSCSL, FINDS
PASCO	1000225870	CENEX TRANSPORTATION PASCO TERMINAL	2525 N RAINIER	99301	RCRA-SQG, CSCSL, FINDS, VCP, MANIFEST
PASCO	1007066633	SHOPPING SPOT 057	148 S RD 28	99301	CSCSL, FINDS, LUST, VCP
YACOLT	U003025360	FARGHER LAKE GROCERY	15518 NE FARGHER LAKE HWY	99301	LUST, UST, ICR

# 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.

## **FEDERAL RECORDS**

### **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: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	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 8  
Telephone: 303-312-6774

EPA Region 4  
Telephone 404-562-8033

### **Proposed NPL: Proposed National Priority List Sites**

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

### **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: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

### **NPL RECOVERY: 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: 05/23/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/22/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

## **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: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/23/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

## **CORRACTS:** Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 05/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/04/2006
	Data Release Frequency: Quarterly

## **RCRA:** Resource Conservation and Recovery Act Information

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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). 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. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site 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: 03/09/2006	Source: EPA
Date Data Arrived at EDR: 04/27/2006	Telephone: 800-424-9346
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: Quarterly

## **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: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/26/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/24/2006
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **HMIRS:** Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-366-4555
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/14/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Annually

## **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: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	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: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

## **DOD:** Department of Defense Sites

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

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 05/12/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 08/07/2006
	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: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

## **US BROWNFIELDS:** A Listing of Brownfields Sites

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2006	Telephone: 202-566-2777
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/12/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/11/2006
	Data Release Frequency: Semi-Annually

### **CONSENT:** Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 03/13/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 07/24/2006
	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: 04/13/2006	Source: EPA
Date Data Arrived at EDR: 04/28/2006	Telephone: 703-416-0223
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/06/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 10/02/2006
	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: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 06/21/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Varies

### **ODI:** Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**TRIS: Toxic Chemical Release Inventory System**

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2003	Source: EPA
Date Data Arrived at EDR: 07/13/2005	Telephone: 202-566-0250
Date Made Active in Reports: 08/17/2005	Last EDR Contact: 06/22/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/18/2006
	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: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/12/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/17/2006
	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: 03/29/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/19/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**

Date of Government Version: 03/31/2006	Source: EPA
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/19/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/18/2006
	Data Release Frequency: Quarterly

**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: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 03/06/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/17/2006
	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: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 04/11/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 12/27/2005	Source: EPA
Date Data Arrived at EDR: 02/08/2006	Telephone: 202-566-0500
Date Made Active in Reports: 02/27/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 19	Next Scheduled EDR Contact: 08/07/2006
	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: 04/12/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/26/2006	Telephone: 301-415-7169
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Quarterly

## **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: 02/09/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/29/2006	Telephone: 303-231-5959
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 06/28/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 09/25/2006
	Data Release Frequency: Semi-Annually

## **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: 04/27/2006	Source: EPA
Date Data Arrived at EDR: 05/02/2006	Telephone: N/A
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 07/03/2006
	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: 06/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/04/2006
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2003  
Date Data Arrived at EDR: 06/17/2005  
Date Made Active in Reports: 08/04/2005  
Number of Days to Update: 48

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 06/30/2006  
Next Scheduled EDR Contact: 09/11/2006  
Data Release Frequency: Biennially

## STATE AND LOCAL RECORDS

### **CSCSL:** Confirmed & 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: 05/11/2006  
Date Data Arrived at EDR: 05/16/2006  
Date Made Active in Reports: 06/27/2006  
Number of Days to Update: 42

Source: Department of Ecology  
Telephone: 360-407-7200  
Last EDR Contact: 05/16/2006  
Next Scheduled EDR Contact: 08/14/2006  
Data Release Frequency: Semi-Annually

### **HSL:** Hazardous Sites List

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

Date of Government Version: 02/22/2006  
Date Data Arrived at EDR: 03/27/2006  
Date Made Active in Reports: 04/13/2006  
Number of Days to Update: 17

Source: Department of Ecology  
Telephone: 360-407-7200  
Last EDR Contact: 06/06/2006  
Next Scheduled EDR Contact: 09/04/2006  
Data Release Frequency: Semi-Annually

### **CSCSL NFA:** Confirmed & 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: 05/11/2006  
Date Data Arrived at EDR: 05/16/2006  
Date Made Active in Reports: 06/27/2006  
Number of Days to Update: 42

Source: Department of Ecology  
Telephone: 360-407-7170  
Last EDR Contact: 05/16/2006  
Next Scheduled EDR Contact: 08/14/2006  
Data Release Frequency: Semi-Annually

### **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: 10/01/2004  
Date Data Arrived at EDR: 01/06/2005  
Date Made Active in Reports: 02/02/2005  
Number of Days to Update: 27

Source: Department of Ecology  
Telephone: 360-407-6132  
Last EDR Contact: 07/07/2006  
Next Scheduled EDR Contact: 10/02/2006  
Data Release Frequency: Annually

### **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: 07/07/2006  
Next Scheduled EDR Contact: 10/02/2006  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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: 03/08/2006	Source: Department of Ecology
Date Data Arrived at EDR: 03/16/2006	Telephone: 360-407-7200
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 06/14/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/11/2006
	Data Release Frequency: Quarterly

## **UST:** Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 04/27/2006	Source: Department of Ecology
Date Data Arrived at EDR: 04/28/2006	Telephone: 360-407-7170
Date Made Active in Reports: 06/05/2006	Last EDR Contact: 06/14/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 09/11/2006
	Data Release Frequency: Quarterly

## **AST:** Aboveground Storage Tank Locations

A listing of aboveground storage tank locations regulated by the Department of Ecology's Spill Prevention, Preparedness and Response Program.

Date of Government Version: 12/13/2005	Source: Department of Ecology
Date Data Arrived at EDR: 12/14/2005	Telephone: 360-407-7562
Date Made Active in Reports: 01/16/2006	Last EDR Contact: 05/30/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 08/28/2006
	Data Release Frequency: Varies

## **MANIFEST:** Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/31/2004	Source: Department of Ecology
Date Data Arrived at EDR: 04/24/2006	Telephone: N/A
Date Made Active in Reports: 05/31/2006	Last EDR Contact: 05/15/2006
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/14/2006
	Data Release Frequency: Annually

## **SPILLS:** Reported Spills

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

Date of Government Version: 03/29/2006	Source: Department of Ecology
Date Data Arrived at EDR: 04/13/2006	Telephone: 360-407-7450
Date Made Active in Reports: 05/31/2006	Last EDR Contact: 07/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Semi-Annually

## **INST CONTROL:** Institutional Control Site List

Sites that have institutional controls.

Date of Government Version: 06/06/2006	Source: Department of Ecology
Date Data Arrived at EDR: 06/06/2006	Telephone: 360-407-7170
Date Made Active in Reports: 06/27/2006	Last EDR Contact: 06/05/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 09/04/2006
	Data Release Frequency: Varies

## **VCP:** Voluntary Cleanup Program Sites

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/11/2006  
Date Data Arrived at EDR: 05/16/2006  
Date Made Active in Reports: 06/27/2006  
Number of Days to Update: 42

Source: Department of Ecology  
Telephone: 360-407-7200  
Last EDR Contact: 05/16/2006  
Next Scheduled EDR Contact: 08/14/2006  
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: 05/15/2006  
Next Scheduled EDR Contact: 08/14/2006  
Data Release Frequency: No Update Planned

## **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.

Date of Government Version: 01/12/2006  
Date Data Arrived at EDR: 03/23/2006  
Date Made Active in Reports: 04/13/2006  
Number of Days to Update: 21

Source: Department of Ecology  
Telephone: 360-407-6732  
Last EDR Contact: 05/15/2006  
Next Scheduled EDR Contact: 08/14/2006  
Data Release Frequency: Varies

## **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: 05/23/2006  
Date Data Arrived at EDR: 06/07/2006  
Date Made Active in Reports: 06/27/2006  
Number of Days to Update: 20

Source: Department of Health  
Telephone: 360-236-3380  
Last EDR Contact: 06/07/2006  
Next Scheduled EDR Contact: 09/04/2006  
Data Release Frequency: Varies

## **EMI:** Washington Emissions Data System

Date of Government Version: 12/31/2004  
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: 360-407-6040  
Last EDR Contact: 04/11/2006  
Next Scheduled EDR Contact: 07/17/2006  
Data Release Frequency: Annually

## **INACTIVE DRYCLEANERS:** Inactive Drycleaners

A listing of inactive drycleaner facility locations.

Date of Government Version: 01/12/2006  
Date Data Arrived at EDR: 03/23/2006  
Date Made Active in Reports: 04/13/2006  
Number of Days to Update: 21

Source: Department of Ecology  
Telephone: 360-407-6732  
Last EDR Contact: 05/15/2006  
Next Scheduled EDR Contact: 08/14/2006  
Data Release Frequency: Annually

## **TRIBAL RECORDS**

### **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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2004  
Date Data Arrived at EDR: 02/08/2005  
Date Made Active in Reports: 08/04/2005  
Number of Days to Update: 177

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 05/12/2006  
Next Scheduled EDR Contact: 08/07/2006  
Data Release Frequency: Semi-Annually

## **INDIAN LUST:** Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 03/14/2006  
Date Data Arrived at EDR: 03/21/2006  
Date Made Active in Reports: 04/13/2006  
Number of Days to Update: 23

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 05/23/2006  
Next Scheduled EDR Contact: 08/21/2006  
Data Release Frequency: Varies

## **INDIAN UST:** Underground Storage Tanks on Indian Land

Date of Government Version: 04/05/2006  
Date Data Arrived at EDR: 04/05/2006  
Date Made Active in Reports: 04/13/2006  
Number of Days to Update: 8

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 05/23/2006  
Next Scheduled EDR Contact: 08/21/2006  
Data Release Frequency: Varies

## **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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

### **KITSAP COUNTY:**

#### **Water Wells in Kitsap County**

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: 0

Source: N/A  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: N/A

### **SEATTLE COUNTY:**

#### **Abandoned Landfill Study in the City of Seattle**

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

Date of Government Version: 07/30/1984  
Date Data Arrived at EDR: 11/07/1994  
Date Made Active in Reports: N/A  
Number of Days to Update: 0

Source: Seattle - King County Department of Public Health  
Telephone: 206-296-4785  
Last EDR Contact: 10/21/1994  
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  
Date Data Arrived at EDR: 08/18/1995  
Date Made Active in Reports: 09/20/1995  
Number of Days to Update: 33

Source: Department of Public Health  
Telephone: 206-296-4785  
Last EDR Contact: 08/14/1995  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### **SNOHOMISH COUNTY:**

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Solid Waste Sites of Record at Snohomish Health District

Date of Government Version: 01/26/2006	Source: Snohomish Health District
Date Data Arrived at EDR: 05/01/2006	Telephone: 206-339-5250
Date Made Active in Reports: 05/31/2006	Last EDR Contact: 04/12/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 07/17/2006
	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.

### 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: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 06/14/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/11/2006
	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: 05/02/2006	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/31/2006	Telephone: 518-402-8651
Date Made Active in Reports: 06/27/2006	Last EDR Contact: 05/31/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/28/2006
	Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/04/2006	Telephone: N/A
Date Made Active in Reports: 06/06/2006	Last EDR Contact: 06/12/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/11/2006
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **WI MANIFEST:** Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005

Date Data Arrived at EDR: 03/17/2006

Date Made Active in Reports: 05/02/2006

Number of Days to Update: 46

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 07/11/2006

Next Scheduled EDR Contact: 10/09/2006

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: PennWell Corporation

Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

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

## **AHA Hospitals:**

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## **Medical Centers: Provider of Services Listing**

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## **Nursing Homes**

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## **Public Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## **Private Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## **Daycare Centers: Daycare Center Listing**

Source: Department of Social & Health Services

Telephone: 253-383-1735

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 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

PFC DANIEL L. WAGENAAR USARC  
1011 E. AINSWORTH ST  
PASCO, WA 99301

### TARGET PROPERTY COORDINATES

Latitude (North):	46.21950 - 46° 13' 10.2"
Longitude (West):	119.0832 - 119° 4' 59.5"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	339328.6
UTM Y (Meters):	5120327.0
Elevation:	369 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	46119-B1 PASCO, WA
Most Recent Revision:	1992

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

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

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



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## 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**

<u>Target Property County</u>	FEMA Flood <u>Electronic Data</u>
FRANKLIN, WA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 5300440825B

Additional Panels in search area:

- 5300460006A
- 5300460005A
- 5300110005D
- 5302370628D
- 5302370629D
- 5300110009E

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	NWI Electronic <u>Data Coverage</u>
PASCO	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 FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

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

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

Era: Cenozoic  
System: Quaternary  
Series: Quaternary  
Code: Q (*decoded above as Era, System & Series*)

#### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### 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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: QUINCY

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	15 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 8.40 Min: 6.10
2	15 inches	60 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 8.40 Min: 6.60

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinator soil types may appear within the general area of target property.

Soil Surface Textures: fine sand  
very fine sandy loam

Surficial Soil Types: fine sand  
very fine sandy loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: stratified  
very gravelly - fine sand  
extremely gravelly - sand

### 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

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3191359	1/2 - 1 Mile WNW
2	USGS3191342	1/2 - 1 Mile West
3	USGS3191370	1/2 - 1 Mile ENE
4	USGS3191385	1/2 - 1 Mile NE
5	USGS3191477	1/2 - 1 Mile ESE
6	USGS3191276	1/2 - 1 Mile North
12	USGS3191543	1/2 - 1 Mile South
13	USGS3191293	1/2 - 1 Mile North
14	USGS3191275	1/2 - 1 Mile NNE

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A7	WAB1001852	1/2 - 1 Mile South
A8	WAB1001853	1/2 - 1 Mile South
B9	WAB1001855	1/2 - 1 Mile SSW
B10	WAB1001854	1/2 - 1 Mile SSW
11	WAB1001851	1/2 - 1 Mile SSE

# PHYSICAL SETTING SOURCE MAP - 01715536.79r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data



SITE NAME: PFC DANIEL L. WAGENAAR USARC  
 ADDRESS: 1011 E. AINSWORTH ST  
 PASCO WA 99301  
 LAT/LONG: 46.2195 / 119.0832

CLIENT: FMSM Engineers  
 CONTACT: Robert Newman  
 INQUIRY #: 01715536.79r  
 DATE: July 14, 2006

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**1**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3191359**

Agency cd:	USGS	Site no:	461320119053101
Site name:	09N/30E-32E01		
Latitude:	461320		
Longitude:	1190531	Dec lat:	46.22207918
Dec lon:	-119.09306537	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	021
Country:	US	Land net:	SW NW S32 T09N R30E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	362.4	Altitude method:	L
Altitude accuracy:	0.1	Altitude datum:	NGVD29
Hydrologic:	Upper ColumbiaPriest Rapids. Washington. Area = 2070 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19670802
Date inventoried:	Not Reported	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:	PASCO GRAVELS		
Well depth:	37	Hole depth:	Not Reported
Source of depth data:	driller	Project number:	WA31500
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:	1986-01-29	Ground water data end date:	1987-08-04
Ground water data count:	3		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-08-04	24.2		1986-07-22	24.2	
1986-01-29	24.1				

**2**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3191342**

Agency cd:	USGS	Site no:	461311119055401
Site name:	09N/30E-31H01		
Latitude:	461311		
Longitude:	1190554	Dec lat:	46.21957917
Dec lon:	-119.09945451	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	021
Country:	US	Land net:	SE NE S31 T09N R30E W
Location map:	Not Reported	Map scale:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	344.4	Altitude method:	L
Altitude accuracy:	0.1	Altitude datum:	NGVD29
Hydrologic:	Upper ColumbiaPriest Rapids. Washington. Area = 2070 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19500516
Date inventoried:	Not Reported	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:	PASCO GRAVELS		
Well depth:	29.5	Hole depth:	Not Reported
Source of depth data:	driller	Project number:	WA31500
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:	1986-01-29	Ground water data end date:	1987-08-04
Ground water data count:	3		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-08-04	25.8		1986-07-22	25.1	
1986-01-29	24.7				

3

**ENE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS USGS3191370**

Agency cd:	USGS	Site no:	461322119041001
Site name:	09N/30E-33C01		
Latitude:	461328		
Longitude:	1190402	Dec lat:	46.22430142
Dec lon:	-119.06834211	Coor meth:	M
Coor accr:	M	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	021
Country:	US	Land net:	NE NW S33 T09N R30E W
Location map:	PASCO	Map scale:	24000
Altitude:	395	Altitude method:	M
Altitude accuracy:	50	Altitude datum:	NGVD29
Hydrologic:	Upper ColumbiaPriest Rapids. Washington. Area = 2070 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19750305
Date inventoried:	Not Reported	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:	PASCO GRAVELS		
Well depth:	58	Hole depth:	58
Source of depth data:	driller	Project number:	WA31500
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

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
 Water quality data end date: 0000-00-00  
 Ground water data begin date: 1975-03-11  
 Ground water data count: 1  
 Water quality data begin date: 0000-00-00  
 Water quality data count: 0  
 Ground water data end date: 1975-03-11

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1975-03-11	35.3	

**4  
NE  
1/2 - 1 Mile  
Higher**

**FED USGS USGS3191385**

Agency cd:	USGS	Site no:	461336119040501
Site name:	09N/30E-28P01		
Latitude:	461336		
Longitude:	1190405	Dec lat:	46.22652366
Dec lon:	-119.06917549	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	021
Country:	US	Land net:	SE SW S28 T09N R30E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	393.8	Altitude method:	L
Altitude accuracy:	0.1	Altitude datum:	NGVD29
Hydrologic:	Upper Columbia Priest Rapids. Washington. Area = 2070 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19540602
Date inventoried:	Not Reported	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:	PASCO GRAVELS		
Well depth:	64.4	Hole depth:	Not Reported
Source of depth data:	driller	Project number:	WA31500
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:	1986-01-22	Ground water data end date:	1987-08-04
Ground water data count:	3		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-08-04	50.7		1986-07-22	50.8	
1986-01-22	50.3				

**5  
ESE  
1/2 - 1 Mile  
Lower**

**FED USGS USGS3191477**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	461255119035601
Site name:	09N/30E-33P01		
Latitude:	461255		
Longitude:	1190356	Dec lat:	46.21513469
Dec lon:	-119.06667532	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	021
Country:	US	Land net:	SE SW S33 T09N R30E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	349.2	Altitude method:	L
Altitude accuracy:	0.1	Altitude datum:	NGVD29
Hydrologic:	Upper ColumbiaPriest Rapids. Washington. Area = 2070 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19510315
Date inventoried:	Not Reported	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:	PASCO GRAVELS		
Well depth:	33.7	Hole depth:	Not Reported
Source of depth data:	driller	Project number:	WA31500
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:	1986-01-29	Ground water data end date:	1987-08-04
Ground water data count:	3		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-08-04	9.6		1986-07-22	9.0	
1986-01-29	9.0				

**6  
North  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS3191276**

Agency cd:	USGS	Site no:	461355119045701
Site name:	09N/30E-29K02		
Latitude:	461355		
Longitude:	1190457	Dec lat:	46.23180147
Dec lon:	-119.08362058	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	021
Country:	US	Land net:	NW SE S29 T09N R30E W
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	380.6	Altitude method:	L
Altitude accuracy:	0.1	Altitude datum:	NGVD29
Hydrologic:	Upper ColumbiaPriest Rapids. Washington. Area = 2070 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19670713
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y	Hole depth:	Not Reported
Type of ground water site:	Single well, other than collector or Ranney type	Project number:	WA31500
Aquifer Type:	Not Reported	Daily flow data begin date:	0000-00-00
Aquifer:	PASCO GRAVELS	Daily flow data count:	0
Well depth:	60	Peak flow data begin date:	0000-00-00
Source of depth data:	driller	Peak flow data end date:	0000-00-00
Real time data flag:	0	Water quality data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Water quality data count:	0
Peak flow data begin date:	0000-00-00	Ground water data begin date:	1986-01-29
Peak flow data count:	0	Ground water data end date:	1987-08-04
Water quality data end date:	0000-00-00	Ground water data count:	3

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-08-04	37.0		1986-07-22	36.7	
1986-01-29	36.3				

**A7**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**WA WELLS    WAB1001852**

Pwsid:	26235	Srcnum:	01
Pwssrcid:	2623501	Systemname:	FOURTH PLACE WATER SYSTEM
Systemtype:	Group B	Sourcenname:	WELL #1
Sourcetype:	Well	Sourcelabe:	S01 / WELL #1
Region:	Eastern	Wria:	31
County:	BENTON	Contadd1:	Not Reported
Contadd2:	1104 E 4TH PL	Contphone:	(509) 585-0835
Contcity:	KENNEWICK	Contstate:	WA
Contzipcd:	99336	Usecode:	Permanent
Capacity:	5		
Treated:	Not Reported	Suscept:	Not Rated
Whpatype:	Not Reported	Doewellid:	Not Reported
Latitude:	46.20691		
Longitude:	-119.082		
Llmethod:	Quarter Quarter Section		

**A8**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**WA WELLS    WAB1001853**

Pwsid:	62604	Srcnum:	01
Pwssrcid:	6260401	Systemname:	CARSON PUBLIC WATER SYSTEM
Systemtype:	Group B	Sourcenname:	WELL #1
Sourcetype:	Well	Sourcelabe:	S01 / WELL #1
Region:	Eastern	Wria:	31
County:	BENTON	Contadd1:	Not Reported
Contadd2:	2040 E Third	Contphone:	(509) 586-8312
Contcity:	Kennewick	Contstate:	WA
Contzipcd:	99336	Usecode:	Permanent
Capacity:	25		
Treated:	Not Reported	Suscept:	Not Rated
Whpatype:	Not Reported	Doewellid:	Not Reported
Latitude:	46.20691		
Longitude:	-119.082		
Llmethod:	Quarter Quarter Section		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**B9**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**WA WELLS      WAB1001855**

Pwsid:	33101	Srcnum:	01
Pwssrcid:	3310101	Systemname:	SHANE S WATER SYSTEM
Systemtype:	Group B	Sourcename:	SHANES WATER SYSTEM
Sourcetype:	Well	Sourcelabe:	S01 / SHANES WATER SYSTEM
Region:	Eastern	Wria:	31
County:	BENTON	Contadd1:	Not Reported
Contadd2:	2780 E 3RD	Contphone:	(509) 586-8629
Contcity:	KENNEWICK	Contstate:	WA
Contzipcd:	99336	Usecode:	Permanent
Capacity:	28		
Treated:	Not Reported	Suscept:	Not Rated
Whpatype:	Not Reported	Doewellid:	Not Reported
Latitude:	46.20693		
Longitude:	-119.088		
Llmethod:	Quarter Quarter Section		

**B10**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**WA WELLS      WAB1001854**

Pwsid:	31679	Srcnum:	01
Pwssrcid:	3167901	Systemname:	COBB, DONALD
Systemtype:	Group B	Sourcename:	WELL #1
Sourcetype:	Well	Sourcelabe:	S01 / WELL #1
Region:	Eastern	Wria:	31
County:	BENTON	Contadd1:	Not Reported
Contadd2:	2620 E 3RD AVE	Contphone:	(360) 586-6935
Contcity:	KENNEWICK	Contstate:	WA
Contzipcd:	99336	Usecode:	Permanent
Capacity:	40		
Treated:	Not Reported	Suscept:	Not Rated
Whpatype:	Not Reported	Doewellid:	Not Reported
Latitude:	46.20693		
Longitude:	-119.088		
Llmethod:	Quarter Quarter Section		

**11**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**WA WELLS      WAB1001851**

Pwsid:	05872	Srcnum:	01
Pwssrcid:	0587201	Systemname:	CAMPBELL S WELL
Systemtype:	Group B	Sourcename:	WELL #1
Sourcetype:	Well	Sourcelabe:	S01 / WELL #1
Region:	Eastern	Wria:	31
County:	BENTON	Contadd1:	Not Reported
Contadd2:	198906 E 3RD AVE	Contphone:	(509) 735-5298
Contcity:	KENNEWICK	Contstate:	WA
Contzipcd:	99336	Usecode:	Permanent
Capacity:	0		
Treated:	Not Reported	Suscept:	Not Rated
Whpatype:	Not Reported	Doewellid:	Not Reported
Latitude:	46.20689		
Longitude:	-119.077		
Llmethod:	Quarter Quarter Section		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**12**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS3191543**

Agency cd:	USGS	Site no:	461222119050001
Site name:	08N/30E-05G01		
Latitude:	461222		
Longitude:	1190500	Dec lat:	46.20596796
Dec lon:	-119.0844538	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	005
Country:	US	Land net:	SW NE S05 T08N R30E W
Location map:	PASCO	Map scale:	24000
Altitude:	340	Altitude method:	M
Altitude accuracy:	5	Altitude datum:	NGVD29
Hydrologic:	Upper ColumbiaPriest Rapids. Washington. Area = 2070 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19010101
Date inventoried:	19740121	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:	22	Hole depth:	Not Reported
Source of depth data:	driller	Project number:	Not Reported
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

**13**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3191293**

Agency cd:	USGS	Site no:	461400119045801
Site name:	09N/30E-29K01		
Latitude:	461400		
Longitude:	1190458	Dec lat:	46.23319037
Dec lon:	-119.08389837	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	53
State:	53	County:	021
Country:	US	Land net:	NW SE S29 T09N R30E W
Location map:	PASCO	Map scale:	24000
Altitude:	377.6	Altitude method:	L
Altitude accuracy:	0.1	Altitude datum:	NGVD29
Hydrologic:	Upper ColumbiaPriest Rapids. Washington. Area = 2070 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19560229
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y	Hole depth:	59
Type of ground water site:	Single well, other than collector or Ranney type	Project number:	WA31500
Aquifer Type:	Not Reported	Daily flow data begin date:	0000-00-00
Aquifer:	PASCO GRAVELS	Daily flow data count:	0
Well depth:	59	Peak flow data begin date:	0000-00-00
Source of depth data:	driller	Peak flow data end date:	0000-00-00
Real time data flag:	0	Water quality data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Water quality data count:	0
Peak flow data begin date:	0000-00-00	Ground water data begin date:	1956-03-05
Peak flow data count:	0	Ground water data end date:	1989-03-14
Water quality data end date:	0000-00-00	Ground water data count:	20

Ground-water levels, Number of Measurements: 20

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-03-14	33.8		1989-01-01	34.8	
1988-09-01	34.5		1988-06-01	33.6	
1988-01-01	33.5		1987-09-01	34.2	
1987-07-01	34.1		1987-05-01	33.1	
1987-03-01	33.1		1987-01-01	33.4	
1986-11-01	33.7		1986-09-01	33.9	
1986-07-01	33.5		1986-05-01	32.8	
1986-04-01	33.0		1983-02-03	32.9	
1978-03-19	33.0		1973-03-01	34.07	
1958-05-21	35.12		1956-03-05	38	

**14  
NNE  
1/2 - 1 Mile  
Higher**

**FED USGS      USGS3191275**

Agency cd:	USGS	Site no:	461355119042001
Site name:	09N/30E-28M01	Dec lat:	46.23180147
Latitude:	461355	Coor meth:	M
Longitude:	1190420	Latlong datum:	NAD27
Dec lon:	-119.07334236	District:	53
Coor accr:	T	County:	021
Dec latlong datum:	NAD83	Land net:	NW SW S28 T09N R30E W
State:	53	Map scale:	24000
Country:	US	Altitude method:	M
Location map:	PASCO	Altitude datum:	NGVD29
Altitude:	400	Hydrologic:	Upper Columbia Priest Rapids. Washington. Area = 2070 sq.mi.
Altitude accuracy:	20	Topographic:	Undulating
Site type:	Ground-water other than Spring	Date construction:	19850409
Date inventoried:	Not Reported	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:	GLACIO-FLUVIATILE		
Well depth:	70	Hole depth:	73
Source of depth data:	driller	Project number:	WA31500
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

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
Water quality data end date:0000-00-00  
Ground water data begin date: 1985-04-11  
Ground water data count: 1

Water quality data begin date: 0000-00-00  
Water quality data count: 0  
Ground water data end date: 1985-04-11

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
----- 1985-04-11	48	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for FRANKLIN County: 2

- 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: 99301

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.367 pCi/L	92%	8%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.200 pCi/L	80%	20%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### **USGS 7.5' Digital Elevation Model (DEM)**

Source: United States Geologic Survey

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

### **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 1999 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.

## OTHER STATE DATABASE INFORMATION

### 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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Fax To: FMSM Engineers  
Contact: Robert Newman  
Fax : 502-212-5055  
Date: 07/14/2006

Fax From: Jeff Weiss  
EDR  
Phone: 1-800-352-0050

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## EDR PUR-IQ<sup>®</sup> Report

*"the intelligent way to conduct historical research"*

for  
**PFC DANIEL L. WAGENAAR USARC**  
**1011 E. AINSWORTH ST**  
**PASCO, WA 99301**  
**Lat./Long. 46.21950 / 119.08320**  
**EDR Inquiry # 01715536.79r**

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports<sup>®</sup> comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

**Potential for EDR Historical (Prior Use) Coverage** - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

- 1. City Directory:** Coverage exists for portions of PASCO, WA for 1964-2001
- 2. Fire Insurance Map:** When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.
- 3. Aerial Photograph:** Aerial photography coverage may exist for portions of Franklin County. Please contact your EDR Account Executive for information about USGS photos available through EDR.
- 4. Topographic Map:** The USGS 7.5 min. quad topo sheet(s) associated with this site:
  - Historical: Coverage exists for Franklin County
  - Current: Target Property: TP | 1992 | 46119-B1 Pasco, WA

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for PASCO, WA. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.



**EDR™** Environmental  
Data Resources Inc

## EDR - HISTORICAL SOURCE(S) ORDER FORM

**FMSM Engineers  
Robert Newman  
Account # 1022764**

**PFC DANIEL L. WAGENAAR USARC  
1011 E. AINSWORTH ST  
PASCO, WA 99301  
Franklin County  
Lat./Long. 46.21950 / 119.08320  
EDR Inquiry # 01715536.79r**

Should you wish to change or add to your order, fax this form to your EDR account executive:

**Jeff Weiss  
Ph: 1-800-352-0050 Fax: 1-800-231-6802**

### Reports

- EDR Sanborn Map® Search/Print
- EDR Fire Insurance Map Abstract
- EDR Multi-Tenant Retail Facility® Report
- EDR City Directory Abstract
- EDR Aerial Photo Decade Package
- USGS Aerial 5 Package
- USGS Aerial 3 Package
- EDR Historical Topographic Maps
- Paper Current USGS Topo (7.5 min.)
- Environmental Lien Search
- Chain of Title Search
- NJ MacRaes Industrial Directory Report
- EDR Telephone Interview

### **Shipping:**

- Email
- Express, Next Day Delivery
- Express, Second Day Delivery
- Express, Next day Delivery
- Express, Second Day Delivery
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Customer Account  
Customer Account

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Acct # \_\_\_\_\_

***Thank you***