

Additional Cleanup Actions Planned at Airport Kwik Stop Site

Ecology plans to conduct additional cleanup work called Interim Actions at the Airport Kwik Stop site beginning in August, 2014. The public is invited to review and comment on the Work Plan, State Environmental Policy Act (SEPA), and Determination of Non-Significance (DNS) documents that will guide the cleanup work.

The primary purpose of this additional work is to address petroleum product floating on groundwater. The groundwater lies approximately 35 feet deep underneath the former Cabin Grill property.

The site begins west of Highway 31 and north of Greenhouse Road and extends generally east and southeast toward the river in Ione, Pend Oreille County, Washington (Fig. 1).



Airport Kwik Stop Site

Contamination is found in soil and groundwater at the Airport Kwik Stop, beneath the Cabin Grill, and on several private properties Northeast and Southeast of the Cabin Grill. Current contaminants of concern include volatile organic compounds (VOCs), benzene, toluene, ethylbenzene and xylenes (BTEX), and gasoline range petroleum hydrocarbons (GRPH) in soil and groundwater.

You are invited to:

- ◆ **Review** the Work Plan, State Environmental Policy Act (SEPA), and Determination of Non-Significance (DNS). These documents are draft until Ecology reviews and considers comments received.
- ◆ **Send** comments to Doug Ladwig at Ecology **July 28, through August 26, 2014**. His contact information is in the box at the right.

Actions Taken to Reduce Contamination

As part of the RI/FS two treatment systems were tested to reduce contamination in soil and groundwater. The first system consists of

Comments Accepted

July 28 through August 26, 2014

For **ADA accommodations** or documents in an alternate format, call Carol Bergin 509/329-3546 (voice), 711 (relay service), or 877-833-6341 (TTY).

Document Review Locations

WA Department of Ecology
Kari Johnson, Public Disclosure
4601 N. Monroe St.
Spokane, WA 99205-1295
Call for an appointment 509/329-3415

Ione Public Library

Ione Community Center
200 Blackwell, Suite 1
P.O. Box 605, Ione, WA 99139
509/442-3030

Ecology's Toxics Cleanup Website

<https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=4203>

Submit Comments/Technical Questions to:

WA Department of Ecology
Doug Ladwig, Site Manager
4601 N. Monroe St.
Spokane, WA 99205-1295
509/329-3440
Doug.Ladwig@ecy.wa.gov

Health-Related Questions:

Matt Schanz at Northeast Tri County
Health District 509/684-2262

Public Involvement Questions

WA Department of Ecology
Carol Bergin, Public Involvement
See Ecology address above
509/329-3546 or
Carol.bergin@ecy.wa.gov

Facility Site ID No. 32584416

Cleanup Site ID No. 4203

two Soil Vapor Extraction (SVE) wells that pull air from contaminated soil into well screens and through piping to an exhaust stack. Petroleum product is volatilized and pulled into the SVE wells. This process removes the volatilized petroleum from the ground.

The pilot test results of this system concluded that the SVE system is effective for reducing petroleum product in soil. This SVE system could remove approximately 90 gallons of Total Petroleum Hydrocarbons (TPH) daily from soil above the water table.

Ecology added four additional SVE wells and installed a full scale treatment system to reduce petroleum contamination. This treatment system is continuing to operate.

The second system tested, called an Air Sparge system, is often used in conjunction with an SVE system to improve groundwater conditions. Air is injected into contaminated groundwater and changes the contamination to a vapor phase which is removed by the SVE system. This process can help in the biodegradation of certain contaminants by increasing dissolved oxygen in groundwater which provides oxygen for microbial activity. However, testing showed this is not an effective method for removing contamination from groundwater at this site. Based on these results Ecology determined additional actions need to be taken to remove petroleum contamination on the groundwater.

The Work Plan Interim Actions

Contractors for Ecology will complete several tasks to reduce petroleum contamination on the groundwater underneath the former Cabin Grill property. The following are some of the actions that will be taken:

- Holes called borings will be drilled in the ground to collect soil samples near the former Cabin Grill property.
- Multipurpose monitoring wells will be installed near the existing Monitoring Well 5 located on the former Cabin Grill property to

determine if contaminants are being reduced.

- An automatic skimmer pump will be installed in Monitoring Well 5, or one of the new wells, to remove petroleum. The petroleum will be pumped into a tank designed to hold the petroleum until it is removed and taken to an approved facility.
- Borings will be drilled downgradient of the Airport Kwik Stop and Cabin Grill to sample for any remaining soil contamination.
- Additional borings will be drilled near the existing Soil Vapor Extraction System (SVE) after the SVE has shown a sufficient decrease in volatile organic compounds (VOCs).

The work performed will be monitored for success and an Interim Action Report will be completed and submitted to Ecology in the Spring of 2015.

Ecology does not anticipate any negative impacts to the community during this work other than minor noise from the skimmer pump. If a problem occurred that could negatively impact local residents, Ecology would notify people immediately.

Potential impacts to humans and wildlife could occur if the contaminated groundwater plume rose to the surface in springs, seeps, or small ponds along the Pend Oreille River. Although Ecology has not found contamination in these areas, it is recommended that people avoid contact with these types of springs, seeps or ponds at this time.

State Environmental Policy Act (SEPA)

The State Environmental Policy Act, known as SEPA, requires government agencies to consider potential environmental impacts of a project before beginning the cleanup. A Determination of Non-Significance (DNS) indicates the proposed actions

will not have a probable significant adverse impact on the environment.

- After review of the environmental checklist and other site-specific information, Ecology determined the actions to address petroleum in groundwater will not have a probable significant adverse impact on the environment.
- The cleanup actions will benefit the environment by reducing contaminants in groundwater and reducing possible exposure pathways for humans and wildlife.
- Therefore, Ecology has issued a Determination of Non-Significance (DNS) for the cleanup action.

Site Background

The Airport Kwik Stop was formerly a convenience store and historically sold gasoline and diesel. The site is made up of the Airport Kwik Stop, the Cabin Grill, and vacant properties north, south, and east of the Cabin Grill. In 1994 underground storage tanks at the Airport Kwik Stop were removed and above ground storage tanks were used to store fuel. In 2008 a leak occurred in a pipe connection under the premium gas dispenser which resulted in spraying gasoline inside the dispenser. In 2010 and 2011 soil and groundwater samples taken from the site showed certain petroleum-related contaminants exceeded state standards.

A Remedial Investigation was conducted at the site to determine where contamination was located and how much was present. A Feasibility Study was also completed to evaluate cleanup options.

To review the RI/FS Reports, including soil and groundwater results, evaluation of potential cleanup options, and other details please see Ecology's Toxics Cleanup website listed in the box on page one of this fact sheet. These documents went through a public comment period November 27 through December 30, 2013.

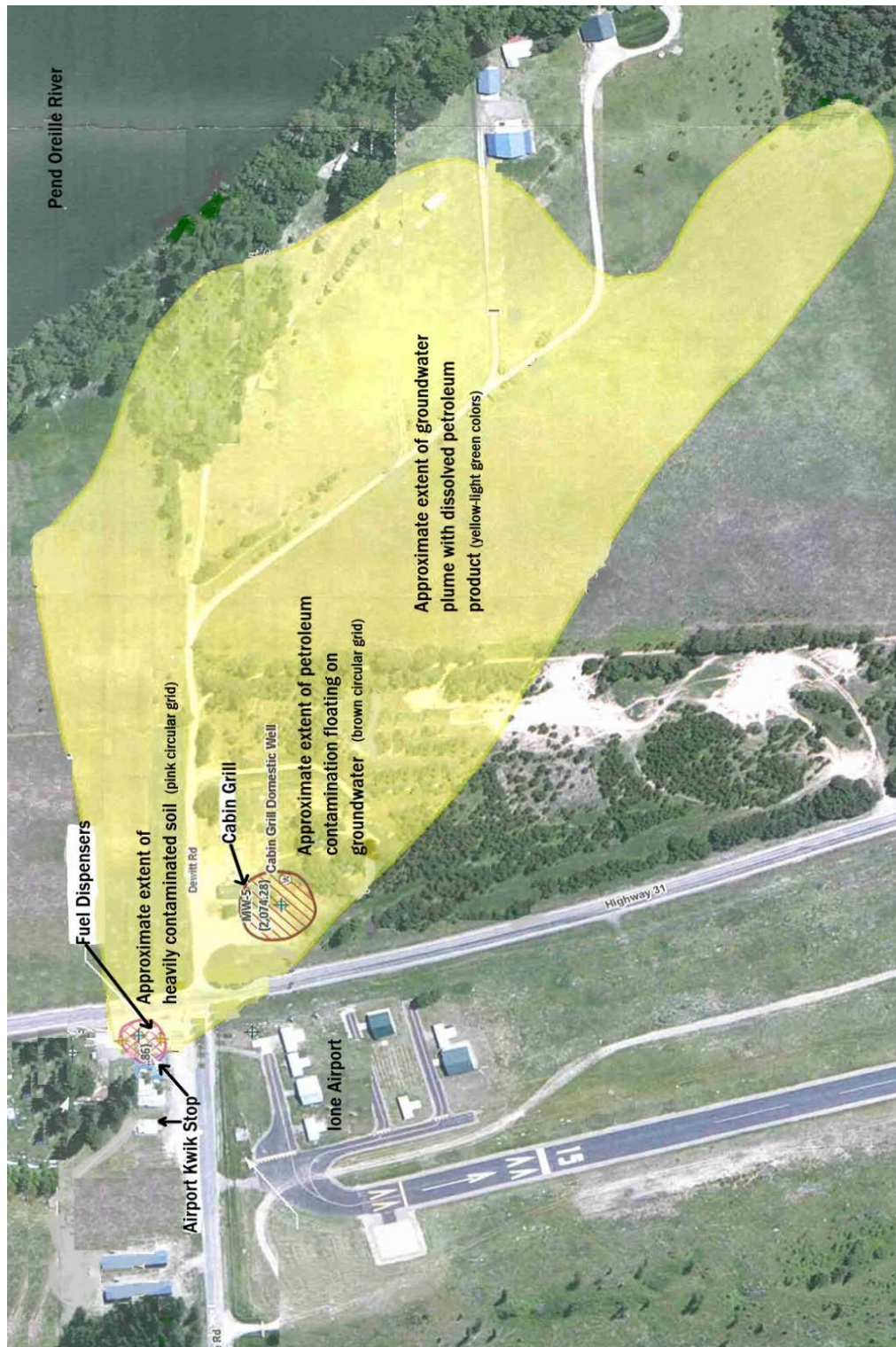
What Happens Next?

Ecology will review and respond to the comments received by August 26, 2014. A written Responsiveness Summary will be prepared and sent to all commenters and placed on the website listed in

the box on page 1. Ecology will make modifications to the Interim Action Work Plan and associated documents based on public comment, if appropriate. If no changes are made, the Work Plan and associated documents will become final.

After the Interim Actions are completed, Ecology will hold a public meeting to discuss the effectiveness of the actions taken at the site. It is anticipated the meeting would be in the spring of 2015 after the Interim Action Reports are submitted and reviewed.

Next, Ecology will write a draft Cleanup Action Plan (DCAP) and identify the cleanup option that has been selected for the site. The DCAP will be made available for public review and comment.



Note: Figure modified from GeoEngineer's original for ease of reading

Figure 1



DEPARTMENT OF
ECOLOGY
State of Washington

4601 N. Monroe
Spokane, WA 99205-1295

Airport Kwik Stop Site

Comments Accepted on the Work Plan and
Associated documents July 28 through August 26, 2014