

Agreed Order for Site Cleanup Available for Public Review and Comment

The Washington Department of Ecology (Ecology) and Lewis County are entering into an Agreed Order (legal agreement) to finish cleaning up contamination at the Lewis County Central Shop cleanup site. Lewis County is required to implement a Cleanup Action Plan which involves:

- Groundwater treatment to remove contamination.
- Groundwater monitoring to evaluate the effectiveness of treatment and natural breakdown of contaminants over time.
- Development of institutional controls which will prevent any installation of new wells near the contamination until cleanup levels are reached.

Ecology Wants Your Input!

Ecology is asking for your comments on the Agreed Order, the Cleanup Action Plan, the Remedial Investigation Report and the Feasibility Study Report. You are invited to:

- **Review** the documents at the repository locations or online (on the right)..
- **Send** your comments to Ecology for consideration. **Comments will be accepted September 28 through October 28, 2009.**

What Happens Next?

Ecology will review and consider all public comments and summarize them in a Responsiveness Summary. This document will be sent to everyone who commented and posted online. If needed, changes will be made to the documents based on public comments. Next, Lewis County will begin implementing the Cleanup Action Plan.

Site Background

The Lewis County Central Shop is an active vehicle maintenance shop located at 109 Forest Napavine Road in a rural area 4 miles south of Chehalis. There are currently five buildings on the 4.4 -acre property.

Lewis County has used the property since the late 1950s for a variety of activities including general automotive repair and maintenance,

Comments Accepted

September 28 -
October 28, 2009

Submit Comments and Technical Questions to:

Guy Barrett, Site Manager
WA Department of Ecology
SWRO Toxics Cleanup Program
P.O. Box 47775
Olympia, WA 98504-7775
Phone: (360) 407-7115
E-mail: gbar461@ecy.wa.gov

Public Involvement Contact:

Meg Bommarito
Phone: (360) 407- 6255
E-mail: mbom461@ecy.wa.gov

Document Review Locations

Chehalis Timberland Library
400 N. Market Blvd
Chehalis, WA 98532-2628
Phone: (360) 748-3301

WA Department of Ecology
Southwest Regional Office
300 Desmond Drive SE
Lacey, WA 98503

By appointment only:
Contact Debbie Nelson,
dene461@ecy.wa.gov or
(360) 407-6365

Ecology's Toxics Cleanup Website

http://www.ecy.wa.gov/programs/tcp/sites/lewisCntyCntrlShop/lewisCntyCntrlShop_hp.html

Facility Site ID # 55886223

equipment washing and storage. These activities resulted in the release of contamination to the site.

In 1998, during routine water testing, Lewis County found elevated levels of solvents (trichloroethene (TCE) and tetrachloroethene (PCE)) and several benzene compounds in the water supply for the property. Three chemicals were above federal standards for drinking water. In response, the County established a public water supply to the Shop.

The County Department of Health sampled 20 private wells near the property and found one private well (1,000 feet away) with TCE and PCE above federal drinking water standards. Lewis County established a public drinking water source to this home. In 2000, Ecology entered into an Agreed Order with the County and began investigating the nature and extent of contamination.

What Did We Find?

- Volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPHs) were present above state cleanup standards in soils; the highest levels were near the Wash Building.
- No contamination was detected in off-property soils.
- VOCs (PCE, TCE and others) and TPHs were present in groundwater, mostly around the Wash Building where contaminated soil was found.
- Contaminants (TCE and others) were found above state cleanup standards in off-property groundwater.
- A plume of contaminated groundwater extends north from the center of the Central Shop property (near the Wash Station) and off-property for approximately 1,600 feet.

Cleanup Actions Taken To Date

Since contamination was discovered, the County has taken several steps to reduce the level of contamination in groundwater and soil. These actions were taken to immediately reduce contamination and protect nearby residents from exposure through private drinking wells. These activities included:

- Removal of 590 tons of contaminated soil and off-site treatment from around the Wash Building (source area).
- Off-site treatment of approximately 15,000 gallons of contaminated water pumped from the property.
- Several phases of groundwater treatment to test for effectiveness of one of the proposed cleanup methods
- Replacement of private drinking water wells with City of Chehalis water service for six nearby residences.

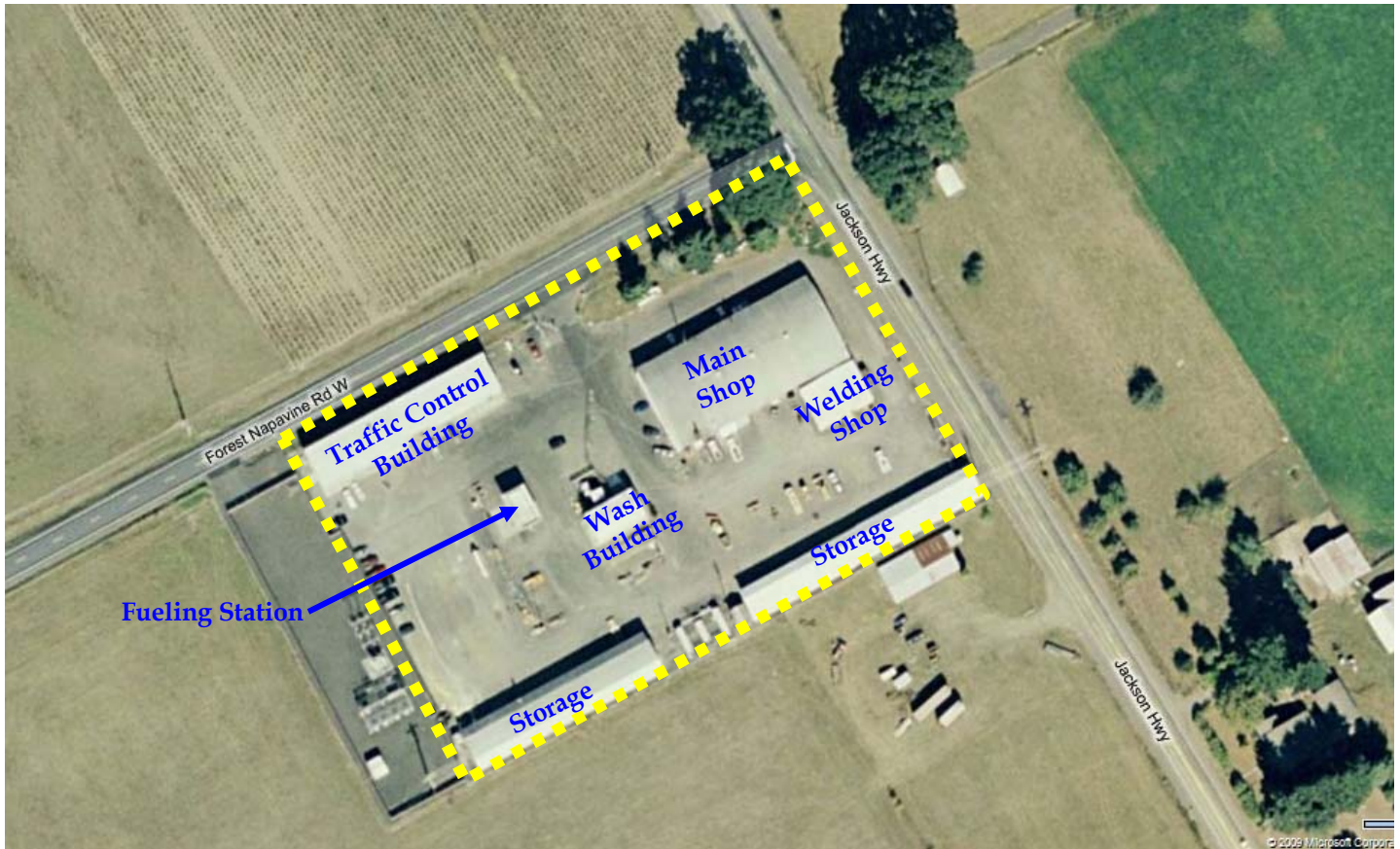
Some contamination remains on-site and off-site in groundwater. A Feasibility Study was done to examine possible cleanup alternatives. A cleanup remedy is now being proposed to continue treatment of contamination (see box below).

PROPOSED CLEANUP ACTIONS

1. Continue treatment of deeper groundwater to reduce levels of PCE and TCE.
2. Use monitored natural attenuation (breakdown of contamination through natural processes) for petroleum hydrocarbons in groundwater
3. Monitor groundwater to make sure groundwater treatment is working and that petroleum hydrocarbons are breaking down naturally (natural attenuation).
4. Establish institutional controls to make sure that activities on the property do not expose the public to potentially contaminated groundwater or soil.

See page 3 for more information about the proposed cleanup actions.

Lewis County Central Shop



Lewis County Central Shop property, Chehalis

How Will Groundwater Be Treated?



Permanganate Treatment Wells will be used to treat the PCE and TCE in deep groundwater on the site. Contaminated groundwater will be pulled out of the ground through a well, mixed with permanganate and then pumped back into the ground. Permanganate is a chemical that will help to break the TCE and PCE down into harmless chemicals. **Pilot studies done on the site have proven that this method is highly effective in breaking down contaminants in the deep groundwater.**



Natural Attenuation will be used to treat total petroleum hydrocarbons found in groundwater on property. This method relies on naturally occurring physical, chemical or biological processes to lower contamination levels over time. Toxins can be dispersed, diluted or transformed into less harmful forms or destroyed. Natural attenuation leaves the contamination in place and relies on natural processes to destroy or neutralize the contamination. The groundwater will be monitored carefully to make sure that natural attenuation is working to reduce levels of contamination remaining on site after previous treatments.



DEPARTMENT OF
ECOLOGY

State of Washington

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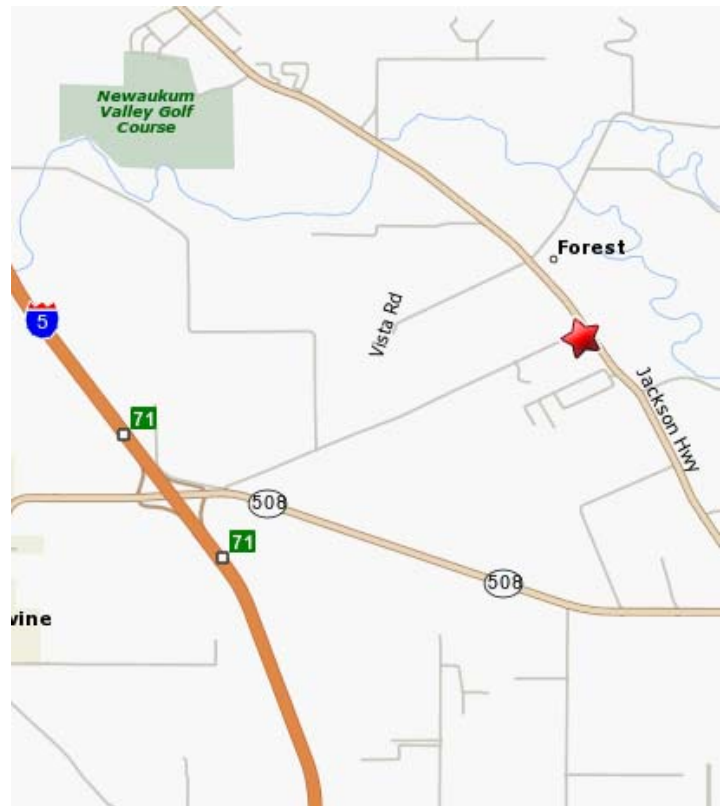
Lewis County Central Shop Chehalis, WA

Agreed Order to Cleanup Contamination Now Available for Public Review and Comment

Public Comment Period:
September 28 - October 28, 2009

Facility Site ID #: 55886223

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*Lewis County Central Shop, 109 Forest Napavine Road,
Chehalis*

