

# Bonneville Power Admin Shelton Substation



SHARP Report — Part 1 of 2

[Go to site contamination history](#)

• SHARP first SHARP		v2024.04.29	Ecology Info	
• SHARP rating	Low		ERTS	602368
• SHARP date	01/09/2025		CSID	1636
• EJFlagged?	✓ – No Override		FSID	9434357
• LD confidence level	low		VCP	none
• Cleanup milestone	CSL listing		UST ID	none
• SHARPster	John Kirkpatrick		LUST ID	none

This section is blank if this is the first SHARP	

SHARP Media	Scores	Confidence	Additional Factors	
Indoor air	D4	medium	multiple chemical types	⊗
Groundwater	C3	low	risk to off-site people	⊗
Surface water	D4	medium	climate change impacts	⊗
Sediment	D4	medium	plant/animal tissue data	⊗
Soil	C2	low		

Location and land use info	
2508 Olympic Hwy N, Shelton, Mason County, 98584	
Primary parcel	320185102001
Land use	industrial
Responsible unit	SWRO

Sources reviewed
2008, Initial Investigation, Department of Ecology
2008, Final Report for Shelton Substation, Bonneville Power Administration

Primary census tract	Associated census tracts
53045960700	

**Local demographics comments**

The hazardous substances from this site likely remained on the census tract where the release occurred.

**Source/source area description**

Two high-voltage phase tanks failed when this circuit breaker blew during a storm. Oil inside these breakers were released to ground.

**Soil comments**

The Contaminant of Concern (COC) in soil confirmed above Model Toxics Control Act (MTCA) Method A cleanup levels was mineral oil; however, the consultant's report concluded that they are below Method C levels. Polychlorinated Biphenyls (PCBs) were also detected in soils, below Method A cleanup levels. However the location of the single soil sample wasn't clear, making it hard to determine the extent of possible PCB contamination.

**Groundwater comments**

No groundwater data was available. Area topography is flat, with lakes, wetlands, and creeks within a mile radius. The site is immediately outside of the 10 year travel-time zone for Shelton Springs, along Shelton Creek, which is listed as an emergency water supply for the city. There is a class B well to the southwest within 500', but it was listed as inactive since 1983.

**Surface water comments**

The nearest water bodies are both a half mile distant: Goose Lake to the NW and Shelton Creek to the E.

**Sediment comments**

The nearest water bodies are both a half mile distant: Goose Lake to the NW and Shelton Creek to the E.

**Indoor air comments**

There is a structure onsite, though the distance between it and the blown circuit breaker isn't clear. Nonetheless, none of the COCs are listed for possible vapor intrusion.

**Additional factors comments**

Per the Federal Emergency Management Agency, the substation is in an "area of minimal flood hazard".

## Site history

[Go to top](#)

In December 2007, a circuit breaker with 3 phase tanks blew after a tree fell on a transmission line. As a consequence of the fault, two phase tanks ruptured violently, with oil spread out over 1/6 acre of the property. Bonneville Power Authority (BPA) and contractors responded to cleanup the site. Contaminated soils were excavated and stockpiled to the extent possible; not all soils could be removed due to utility infrastructure, e.g. concrete pads hosting substation equipment.

Confirmation sampling demonstrated mineral oil levels in remaining soils above MTCA Method A Cleanup Levels. The BPA report calculated a Method C level, which they stated they were in compliance with. However, due to residual contamination the site was listed so that cleanup would be conducted in the event the site is repurposed in the future.

PCBs were also investigated, and were found in electrical equipment on site. However, the one oil-stained soil sample taken had PCB levels below MTCA Method A Cleanup Levels.

The initial investigation was completed in early 2009. The site was subsequently listed and an Early Notice Letter sent.

Several years prior to this, in 2002, there was a spill at the same station that resulted in some PCB contamination. Cleanup was conducted and after Ecology investigation, the site was not listed. The cleanup report from BPA is on file in Ecology records.

**Overflow - Site contamination and cleanup history**

No overflow

## Bonneville Power Admin Shelton Substation

1636 Bonneville Power Admin Shelton Substation 20250109

First SHARP

SHARP rating — Low

## SHARP Report — Part 2 of 2

Conceptual site model

01/09/2025



### Assessment scores by environmental medium

