

Coupeville Landfill



SHARP Report — Part 1 of 2

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• SHARP first SHARP		v2024.04.29	Ecology Info	
• SHARP rating	Low		ERTS	none
• SHARP date	07/07/2025		CSID	4285
• EJFlagged?	⊘ - No Override		FSID	2001
• LD confidence level	low		VCP	none
• Cleanup milestone	site hazard assessment		UST ID	none
• SHARPster	Tim O'Connor		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	C1	medium	risk to off-site people	✓
Surface water	D4	medium	climate change impacts	✓
Sediment	D4	medium	plant/animal tissue data	⊘
Soil	C2	medium		

Location and land use info	
20018 State Route 20, Coupeville, Island County, 98239	
Primary parcel	R13102-485-1880
Land use	other
Responsible unit	NWRO

Sources reviewed

Primary census tract	Associated census tracts
9710	9711

Local demographics comments

no comments

Source/source area description

Municipal Waste Landfill - see below. A 2013 investigation for a Potential Source Area under an approved "Further Assessment of Groundwater Contamination by Vinyl Chloride" Work Plan did not yield any evidence that VOCs were released to soils by the former maintenance shed/stormwater infiltration pit in the southeast corner of the area.

Soil comments

no comments

Groundwater comments

no comments

Surface water comments

no comments

Sediment comments

no comments

Indoor air comments

no comments

Additional factors comments

no comments

Site history

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The Coupeville Solid Waste Facility contains four, adjoining closed landfills:

The approximate 3-acre City Municipal Solid Waste Landfill, located on the west side of the landfill area, operated as a burning dump from 1946 to 1969 and as a landfill from 1969 to 1977. The landfill does not have a bottom liner, contains an estimated 10 to 20 feet of waste, and has a soil cover.

The approximate 11-acre County Municipal Solid Waste Landfill, located on the south side of the landfill area, operated from 1971 to 1992. The landfill was constructed without a landfill liner, which were not required before November 1985. The landfill contains up to 50 feet of municipal solid waste. The landfill was closed with an engineered landfill cover and a landfill gas collection system. The landfill cover includes a 60-mil high-density polyethylene geomembrane, a drainage layer, and a soil cover.

The approximate 4-acre County Construction Debris Landfill, located on the northeast side of the landfill area, operated from 1992 to 2002. The landfill contains up to 40 feet of construction and demolition waste. The landfill has no bottom liner and has a soil cover consisting of 12 inches of native soil and 12 inches of soil with a high clay content.

An approximate 1-acre asbestos landfill is located north of the County Municipal Solid Waste Landfill.

Overflow - Site contamination and cleanup history

The landfills are located on Parcels R13102-485-1880 (east parcel, 21.41 acres) and R13102-491-1160 (west parcel, 4.81 acres). Contamination extends northeast of the landfill on Parcels R13102-476-2550 (2.02 acres, abuts landfill to east), R13102-479-2990 (14.91 acres, further east), and R13235-033-2900 (16.50 acres, abuts landfill to northeast). Island County Public Works - Solid Waste is the taxpayer for all impacted parcels.

Coupeville Landfill

4285 Coupeville Landfill 20250707

First SHARP

SHARP rating — Low

SHARP Report — Part 2 of 2

Conceptual site model

07/07/2025



Assessment scores by environmental medium

