

# Swift Creek Action Plan engineered controls diagram

This diagram appears in the Consent Decree (legal agreement) between Ecology and Whatcom County.

## General Diagram Orientation

### General Project Location

The Swift Creek flood control and sediment management project is located east of Everson, WA in Whatcom County.

### Swift Creek Path

The North and South Forks of Swift Creek originate from the western slope of Sumas Mountain and join at the base of Sumas Mountain east of Leibrant Road. After joining as one creek, it flows westward for approximately 1,500 feet and then southwest for approximately 3,000 feet. The creek then flows generally northwest for 1,000 feet and flows underneath Goodwin Road. It continues northwest for approximately 6,000 feet and then flows underneath Oat Coles Road. It continues generally southwest another 1,500 feet where it joins the Sumas River.

### Roads

Within the Swift Creek Project area, roads running east/west include South Pass Road to the north and Massey Road to the south. Roads running north/south include Oat Coles Road, Goodwin Road, and Leibrant Road (listed from west to east).

### Alluvial Fan

At the confluence of Swift Creek's North and South Forks, an alluvial fan extends from the base of Sumas Mountain west of Leibrant Road, north of South Pass Road, and south of Massey Road.

### Williams Pipelines

Natural gas pipelines extend from the north to the south through the project area paralleling Leibrant Road for approximately 4,000 feet before crossing Swift Creek at the base of Sumas Mountain.

## Engineered Controls

### Levees

- South Pass Setback Levee: This levee will be located north of Swift Creek. Oat Coles Road will border the levee to the west and South Pass Road to the north. It will be approximately 1,500 feet long.
- Lower Goodwin Reach Setback Levee: This levee will be located south of Swift Creek, extending east of Goodwin Road. It will be approximately 2,500 feet long.
- Upper Goodwin Reach Debris Flow/Setback Levee: This levee will be located north and west of Swift Creek and east of the Williams Pipeline. It will be approximately 1,500 feet long.

### Goodwin Reach Sediment Basins

Two sediment basins will be located east of Goodwin Road, west of the Williams Pipeline, and north of the Lower Goodwin Reach Setback Levee. Swift Creek flows generally westward through the sediment basins. The two sediment basins will cover approximately 80 acres.

### Canyon Reach Instream Sediment Traps

Multiple sediment traps will be located west of the confluence of Swift Creek's North and South Forks. The sediment traps will extend approximately 1,000 feet before the creek reaches the sediment basins.

### Existing Stockpile Levees

Existing stockpile levees are located on both sides of Swift Creek from the confluence of Swift Creek's North and South Forks on Sumas Mountain to west of Oat Coles Road and within approximately 1,000 feet of the confluence with the Sumas River.

### Potential Future Repository Sites

The diagram estimates two potential future repository locations. The first repository could be located north of the Goodwin Reach sediment basins and east of Goodwin Road. This first repository could be 16 acres. The second repository could be located south of the confluence of Swift Creek's North and South Forks and east of the Williams Pipelines. This second repository could be 90+ acres.