# MONITORING & ADAPTIVE MANAGEMENT



#### Fish Passage Monitoring Project

Skagit County Public Works has completed several fish passage construction projects to open up spawning and rearing habitats for native salmonids. To support these endeavors, Skagit County Public Works contracted with Skagit Fisheries Enhancement Group to perform preand postconstruction monitoring of the fish passage sites to assess project effectiveness. Surveys included counts of returning fish, smolt outmigration, and redds.

## Benefits

- Determines effectiveness of culvert replacement methods.
- Obtains accurate count of returning adult fish and redds.
- Determines seasonal variation in returning adult fish and redds.

# Geographical Information Systems/Mapping

The Skagit Conservation Database Consortium (SCDC) was created in 1998 to collect and analyze environmental data in a geographical information system (GIS). This single source of past and present conservation information is useful in conservation planning, aids in the identification of gaps in protected and critical areas, and facilitates prioritization. First-year deliverables include a conservation database and a map that displays land acquisition and habitat/resource level projects. This is an ongoing effort that will incorporate future projects and their monitoring.

# Benefits

- Achieves single source for past and present conservation information.
- Creates link between conservation information and GIS.
- Identifies gaps in protected areas to facilitate prioritization.

# Samish Bay Water Quality Monitoring Project

Shellfish growing areas in Samish Bay were downgraded outbreaks of gastrointestinal illness related to shellfish consur levels of fecal coliform bacteria associated with fresh water in (including the Samish River, Edison Slough, and Colony Cree as sources. This monitoring project will gather data to pinpoi the fecal coliform bacteria, as well as collect ambient water qu watershed. Skagit County applied for and received a grant for Washington Department of Ecology.

## Benefits

- · Establishes a monitoring program.
- Provides identification of fecal coliform source.
- Enables reopening of shellfish beds in Samish Bay.
- · Creates central storehouse of water quality data for Skagit Co

#### Watershed

Skagit River (WRIA 03 and 04) Sedro-Woolley's storm sewer system

Revenue Skagit County Road Fund

Partners Skagit County Skagit Fisheries Enhancement Group

Watershed: Skagit River (WRIA 03 and 04)

**Cost:** \$12,000

Revenue: \$12,000 Skagit County General Fund

Partners: Skagit County Skagit Land Trust Skagit Conservation Database Consortium

Watershed: Samish Bay (WRIA 03)

Cost: \$250,000

Revenue:\$187,500Washington Department of Ecology\$62,500Skagit County

Partners:

Skagit County Washington Department of Ecology Skagit Conservation District Samish Bay Monitoring Technical Advisory Committee