

APPENDIX H: Tenmile Sub-basin Report

WHATCOM COUNTY FISH PASSAGE ASSESSMENT SUB-BASIN REPORT TENMILE SUB-BASIN

Description of Sub-basin

The Tenmile Sub-basin includes all the Nooksack River tributary streams south of the main stem between Everson to the Nooksack River delta at Bellingham Bay (figure 1-3). Tributary streams along this reach include Silver Creek, Cougar Creek, Tenmile Creek, Fourmile Creek, and Deer Creek Scott ditch.

Land use is chiefly agricultural and rural residential. Land use jurisdiction is entirely Whatcom County (Whatcom County, 1997).

Silver Creek has five tributaries, including Bear Creek, Andreason Creek, Lost Lake Creek, and Tennant Creek (Figure 1). These streams start as seasonal streams in the glacial till uplands between Ferndale and Bellingham before draining to the sandy glacial outwash flats and the Nooksack River floodplain. The main stem parallels the Nooksack River for almost two miles on the river floodplain before joining a Nooksack delta distributory channel near Marrietta. Beaver ponds, pools and riffles characterize in-stream habitat along most headwater reaches. Substrate is silt and exposed till with scattered patches of silty gravel, and riparian vegetation is characterized by immature to mature deciduous forest. Fish use is mostly coho salmon, and cutthroat and steelhead trout. Some lower reaches are also utilized by chum salmon (Whatcom County, 1994, NWIFC, 2003).

Andreason Creek and Tennant Creek tributaries are different. Andreason Creek originates in a peat wetland that is fed year around by Larabee Springs. The wetland was ditched in the early 1900s leaving little in-stream structure or sinuosity. Substrate is peat and fine silt and riparian vegetation is overhanging reed canary grass except where riparian enhancement projects have established a buffer of native shrubs and trees. Fish use is coho and chum salmon, and cutthroat and steelhead trout (Whatcom County, 1994, NWIFC, 2003).

Tennant Creek originates at multiple beaver dams that impound Tennant Lake, and flows south along the old Nooksack River floodway in a straight ditch dug through an expansive reed canary grass marsh. Substrate is fine silts and peat, and riparian vegetation is almost entirely overhanging reed canary grass. Clay pit Pond, an old clay quarry located next to the Recomp, Inc. incinerator ash landfill, joins Tennant Creek north of Slater Road. Heavy metals leaching from the landfill are an ongoing water quality problem for Silver Creek. Fish use is mostly coho salmon and cutthroat trout (Whatcom County, 1994, NWIFC, 2003).

Large deep pools characterize the main stem of Silver Creek between Northwest Drive and Slater Road and short riffles. Stream substrate is sand with patches of gravel and cobble sufficient to support spawning. Riparian vegetation is immature to mature deciduous forest and native shrubs. Fish use is coho and chum salmon, and cutthroat and steelhead trout (Whatcom County, 1994, NWIFC, 2003).

The lower reach of Silver creek flows through a wide expanse of reed canary grass and agricultural fields. Unrestricted access by grazing animals has trampled and collapsed the banks and aggravated the spread of canary grass. In-stream habitat is degraded in this reach: channel substrate is fine silt and muck, and riparian vegetation is overhanging mats of reed canary grass punctuated occasionally by willow thickets. Fish use is primarily juvenile rearing for coho salmon and cutthroat trout (Whatcom County, 1994, NWIFC, 2003).

Cougar Creek originates in Wiser Lake and flows westward for three miles through a peat filled outwash channel to the Nooksack River (Figure 2). Land use surrounding the ditch is agricultural and rural residential. Stream substrate is silt, clay and peat, and streamside vegetation is composed of reed canary grass in the upper reaches, and patchy immature deciduous forest in the lower mile where the creek is confined to a shallow ravine. A dam at the outlet of Wiser Lake blocks fish passage. Anadromous fish use is primarily coho salmon and cutthroat trout (Whatcom County, 1994, NWIFC, 2003).

Tenmile Creek and its two tributaries, Fourmile and Deer Creeks, comprise the major watercourses in the sub-basin (Figure 2 and 3). Tenmile Creek originates as numerous small, moderate gradient tributary streams that drain the glacial till uplands west of Goshen (figure). These small tributaries feed a complex of wetlands and peat bogs located in wide bottoms of glacial channels that are deeply incised into the till. Ditches dredged down the center of these channels in the early 1900s drain northwest to low gradient reaches that traverse westward across a sandy outwash plain for six miles to Barrett Lake, and then to the Nooksack River near Ferndale. Except for the steeper gradient headwater tributaries, in-stream habitat is predominantly slow glides and pools with occasional riffles for most of its length. Substrate is generally sand or peat with scattered patches of gravel in the lower watershed and gravel and sand in the headwater areas. Riparian vegetation is mature to immature deciduous forest in the upper watershed transitioning to mostly overhanging grasses in the middle reaches and returning to discontinuous patches of immature deciduous forest in the lower reaches by Barrett Lake. Fish use is mainly coho salmon and cutthroat trout, with some chum salmon utilization in the lower reaches (Whatcom County, 1994, NWIFC, 2003).

Fourmile Creek originates east of Green Lake and is almost entirely an excavated channel through peat that lines the bottom of a broad low gradient glacial outwash channel. In-stream habitat is typically slow pools and glides with occasional riffles. Rare gravel patches punctuate the predominantly silt to sand substrate, especially in the upper reaches above Green Lake. Although riparian enhancement projects are making good headway toward providing a forested buffer, riparian vegetation is typically reed canary grass or low thickets of native shrubs. Fish use is primarily coho salmon and cutthroat trout (Whatcom County, 1994, NWIFC, 2003).

Deer Creek originates as numerous seasonal tributary streams just east of Hannegan Road that drain the glacial till uplands between Axton and Smith Roads. Deer Creek then flows west to a large spring-fed peat wetland complex near Aldrich Road and across a low gradient sandy outwash plain to its confluence with Tenmile Creek at Barrett Lake. In-stream habitat is typically shallow pools and glides with occasional riffles. Substrate is typically sand interspersed with moderate patches of gravel and cobble. Considerable quantities of gravel and

cobble substrate occur in the upper reaches and, again, in the lower reach west of Northwest Road. Riparian vegetation is patchy immature forest interspersed with overhanging grasses and shrubs. Fish use is primarily coho salmon and cutthroat trout, with some chum salmon use in the lower reaches (Whatcom County, 1994, NWIFC, 2003).

Scott Ditch flows westward from Everson to the Nooksack River (figure 3). Except for the westernmost mile, this watercourse is an artificial ditch dug in the early 1900s to drain extensive wetlands and peat bogs that lay at the northern toe of a glacial outwash terrace. Land use surrounding the ditch is entirely agricultural. Ditch substrate is silt, clay and peat, and streamside vegetation is composed of Reed Canary grass except where riparian enhancement projects have recently planted native shrubs and trees. Fish use is coho salmon and cutthroat trout (Whatcom County, 1994, NWIFC, 2003).

Data Integration from Previous Projects

In the Tenmile Sub-basin, previous barrier data from Whatcom County (County roads), The Washington Department of Transportation (WSDOT), The Washington Department of Fish and Wildlife (WDFW), and Nooksack Salmon Enhancement Association (NSEA) are standardized and integrated into the WDFW Fish Passage and Diversion Screening Inventory (FPDSI) data base format and is included in the final summary table.

Reach Prioritization Summary

Prior to contacting landowners for access permission, inventory staff met with tribal and State biologists, and local fisheries professionals to identify priority stream reaches that had not been previously inventoried. In the interest of efficiency, we did not include areas with previously completed inventories, or where barrier inventories are required by law, and focused on reaches where information was lacking.

Similar inventories have been completed by the Washington State Department of Transportation (WSDOT) for their ownership. WSDOT and Whatcom County Public Works will be repairing barriers on roadways as part of their ongoing maintenance and repair program.

The following reaches were inventoried in the Tenmile Sub-basin:

- Deer Creek: Comprehensive inventory of anadromous habitat by WDFW in 1999.
- Tennant Creek: Inventoried by WDFW as part of their Wildlife Areas Program.
- Ten Mile Creek: From Guide Meridian to the end of anadromous use.
- West Laurel Road Trib (WRIA 01.0177): From confluence to the end of anadromous use.
- East Hemmi Road Tribs (WRIA 01.0184 and 01.0186): From confluence to the end of anadromous use.
- Shuksan Creek tribs. (WRIA 01.0187 and 01.0188): From confluence to the end of anadromous use.
- Starry Road Tribs (01.0189 and 01.190): From confluence to the end of anadromous use.
- Upper Ten Mile Creek Tributaries: (01.0191, and Unnamed Trib at Everson Goshen Rd MP 2.46): From confluence to the end of anadromous use.

- Four Mile Creek: From Green Lake to end of anadromous use, includes the system that eventually drains into Ten Mile Creek.
- Lattimore Road Tribs: From confluence to the end of anadromous use.
- Paradise Road Tribs (WRIA 01.0193): From confluence to the end of anadromous use.
- Scott Ditch: From Hannegan Rd to upstream extent of anadromous habitat.
- Silver Creek Mainstem: Upstream from Slater Road to end of anadromous use.
- Silver Creek Tributaries (WRIA 01.0126, 01.0127, 01.0128, 01.0136, 01.0137, 01.0138, 01.0140, 01.0141, unnamed tribs at Rural Road MP 1.10 and MP 2.05, and WRIA 01.0143 including an associated unnamed trib): Comprehensive surveys of entire anadromous habitat .

Barrier Assessment

Prior to conducting fieldwork, landowners adjacent to stream inventory sites provided written or verbal permission for field crews to access their property. Field crews did not evaluate culverts or habitat conditions on land parcels in which property access was denied.

Two levels of assessment are included in this report. The first is a road inventory conducted by Whatcom County Public Works staff that identified fish blocking culverts on the County road system for known and possible fish bearing streams. The second level of assessment was a stream-based inventory by Nooksack Tribe and Nooksack Salmon Enhancement Association field crews on priority stream reaches identified in the reach prioritization effort described above. All human made features in priority stream reaches were geo-referenced using GPS and evaluated for their ability to pass fish. Field evaluation and data collection followed the methodologies described in the *Fish Passage Barrier and surface Water Diversion Screening Assessment and Prioritization Manual* (WDFW 2000).

Summary of Results

Figure 1 is a map of the Tenmile Sub-basin showing the location and site ID number of each feature inventoried. Table 1 summarizes the inventory results sequentially by site ID number for the Tenmile Sub-basin. Table 2 summarizes the details associated with identified fish passage barriers and is sorted by Priority Index number (PI). Due primarily to property access restrictions, some blockages did not have PI's calculated. However, this project captured the vast majority of fish passage barriers for a reasonably complete inventory of all passage barriers to anadromous fish in this sub-basin.

Table 1. Stream features inventoried in the Tenmile Sub-basin, sorted by Site ID number.

Site ID	Sequencer ¹	Stream	Tributary To	Owner Type	Feature	Repair ² Status	% Passable	Additional Barriers		Survey Type ³	Total PI
								Upstream	Downstream		
01.0124 5.10		Silver Cr	Nooksack R	Private	Fishway	OK	100			LME	
01.0165 5.60	1.1	Deer Cr	Tenmile Cr	Private	Culvert	RR	0	14	2	PS3	46.59
01.0184 0.10		Unnamed	Tenmile Cr	Private	Dam	RR	0			TD	
01.0184 0.20	1.1	Unnamed	Tenmile Cr	Unknown	Culvert	RR	33	2	0	RSFS	
01.0191A 0.10	1.1	Unnamed	Tenmile Cr	County	Culvert	RR	33	0	2	RSFS	
1280068	1.1	Unnamed	Bear Cr	Private	Culvert	OK	100				
1280147	1.1	Starry Cr	Tenmile Cr	Private	Culvert	OK	100				
1280148	1.1	Starry Cr	Tenmile Cr	Private	Culvert	RR	33	1	2	RSFS	8.07
1280149	1.1	Unnamed	Starry Cr	Private	Culvert	RR	33	0	1	RSFS	4.31
1280150	1.1	Starry Cr	Tenmile Cr	Private	Culvert	RR	67	2	1	RSFS	8.66
1280151	1.1	Shuksan Cr	Tenmile Cr	Private	Culvert	OK	100				
1280152	1.1	Tenmile Cr	Nooksack R	Private	Culvert	OK	100				
1280153	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1280154	1.1	Tenmile Cr	Nooksack R	Private	Culvert	RR	33	2	1	RSFS	24.48
1280155	1.1	Unnamed	Shuksan Cr	Private	Culvert	OK	100				
1280159	1.1	Shuksan Cr	Tenmile Cr	Private	Culvert	OK	100				
1280160	1.1	Shuksan Cr	Tenmile Cr	Private	Culvert	OK	100				
1280163	1.1	Unnamed	Silver Cr	County	Culvert	LG	67			TD	
1280164	1.1	Unnamed	Silver Cr	Private	Culvert	LG	33	0	3	RSFS	3.93
1280165	1.1	Unnamed	Silver Cr	Private	Culvert	LG	33	0	3	RSFS	3.68
1280166	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1280167	1.4	Unnamed	Silver Cr	Private	Culvert	OK	100				
1280168	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1280169	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1280170	1.1	Unnamed	Silver Cr	Private	Culvert	RR	33	0	2	RSFS	5.60

¹ Sequencer: 1:2 – One culvert of two, 1:3 - One culvert of three, etc.

² Repair Status: OK – No action needed, RR – Repair required, LG – Habitat gain is less than 200 m., UD – Habitat gain undetermined, FX – Fixed, Blank – No fish use potential.

³ Survey Type: TD – Threshold Determination, LME – Lineal Map Estimate, ETD – Expanded threshold determination, UETD – Unexpanded Threshold Determination, FS, PS – Full habitat Survey, RSFS – Reduced Sampling Physical Survey.

Site ID	Sequencer ¹	Stream	Tributary To	Owner Type	Feature	Repair ² Status	% Passable	Additional Barriers		Survey Type ³	Total PI
								Upstream	Downstream		
1280204	1.1	Unnamed	Silver Cr	County	Culvert	RR	0	1	1	RSFS	14.26
1285077	1.1	Fourmile Cr	Tenmile Cr	Private	Culvert	UD					
1285080		Neevel Cr	Nooksack R	Private	Dam	RR	33	1	0	RSFS	16.61
1285081	1.1	Neevel Cr	Nooksack R	Private	Culvert	RR	33	0	1	RSFS	14.24
1285082	1.1	Neevel Cr	Nooksack R	Private	Culvert	UD					
1285083	1.1	Clarkson Cr	Nooksack R	Private	Culvert	UD					
1285084	1.1	Unnamed	Tenmile Cr	Private	Culvert	RR	33	1	0	RSFS	7.26
1285085	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285086	1.2	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285087	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285088	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285089	1.1	Unnamed	Tenmile Cr	Private	Culvert	RR	33	0	0	RSFS	11.55
1285090	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285091	1.1	Unnamed	Tenmile Cr	Private	Culvert	LG	33			TD	
1285092	1.1	Unnamed	Scott Cr	Private	Culvert	RR	33	0	2	RSFS	9.20
1285093	1.1	Scott Ditch	Nooksack R	Private	Culvert	OK	100				
1285094	1.1	Silver Springs Cr	Tenmile Cr	Private	Culvert	RR	67	1	1	RSFS	16.81
1285095	1.1	Silver Springs Cr	Tenmile Cr	Private	Culvert	OK	100				
1285096	1.1	Silver Springs Cr	Tenmile Cr	Private	Culvert	RR	33	0	2	RSFS	17.70
1285097	1.1	Silver Springs Cr	Tenmile Cr	Private	Culvert	OK	100				
1285098	1.1	Unnamed	Silver Cr	Private	Culvert	RR	33	0	0	RSFS	17.58
1285100	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1285101	1.1	Unnamed	Silver Cr	Private	Culvert	RR	33	1	2	RSFS	24.55
1285102	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1285103	1.1	Unnamed	Silver Cr	Private	Culvert	UD					
1285104	1.1	Unnamed	Silver Cr	Private	Culvert	UD					

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Site ID	Sequencer ¹	Stream	Tributary To	Owner Type	Feature	Repair ² Status	% Passable	Additional Barriers		Survey Type ³	Total PI
								Upstream	Downstream		
1285105	1.1	Unnamed	Silver Cr	Private	Culvert	RR	33	0	3	RSFS	18.40
1285106	1.1	Unnamed	Silver Cr	Private	Culvert	UD					
1285107	1.1	Unnamed	Silver Cr	Private	Culvert	UD					
1285108	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1285109	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1285110	1.1	Scott Ditch	Nooksack R	Private	Culvert	OK	100				
1285111	1.1	Scott Ditch	Nooksack R	Private	Culvert	RR	33	3	0	RSFS	36.16
1285112	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285113	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285114	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285115	1.1	Unnamed	Tenmile Cr	Private	Culvert	OK	100				
1285116	1.1	Unnamed	Tenmile Cr	Private	Culvert	RR	33	1	0	RSFS	19.56
1285117	1.1	Unnamed	Tenmile Cr	Private	Culvert	RR	33	0	1	RSFS	10.41
1285118	1.1	Unnamed	Fourmile Cr	Private	Culvert	OK	100				
1285119	1.1	Silver Springs Cr	Tenmile Cr	Private	Culvert	OK	100				
1285120	1.1	Silver Springs Cr	Tenmile Cr	Private	Culvert	OK	100				
1285121	1.1	Silver Springs Cr	Tenmile Cr	Private	Culvert	OK	100				
1285122	1.1	Unnamed	Fourmile Cr	Private	Culvert	RR	33	0	1	RSFS	18.58
1285123	1.1	Unnamed	Fourmile Cr	Private	Culvert	RR	67	1	0	RSFS	16.76
1285150	1.2	Tenmile Cr	Nooksack R	Private	Culvert	RR	33	7	0	RSFS	32.43
1285155	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1285156	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1285157	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1285158	1.1	Unnamed	Silver Cr	Private	Culvert	RR	33	3	1	RSFS	11.47
1285159	1.1	Unnamed	Silver Cr	Private	Culvert	OK	100				
1285160		Unnamed	Silver Cr	Private	Other	RR	33	0	4	RSFS	16.93

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Site ID	Sequencer ¹	Stream	Tributary To	Owner Type	Feature	Repair ² Status	% Passable	Additional Barriers		Survey Type ³	Total PI
								Upstream	Downstream		
1285161	1.1	Unnamed	Silver Cr	Private	Culvert	LG	0				
1285162		Unnamed	Silver Cr	Private	Dam	RR	0			TD	
370113	1.1	Unnamed	Silver Cr	County	Culvert	RR	33	1	1	RSFS	14.10
370114	1.2	Silver Cr	Nooksack R	County	Culvert	RR	33	1	1	RSFS	19.22
370115	1.2	Unnamed	Silver Cr	County	Culvert	UD		2	1	RSFS	20.73
370116	1.1	Deer Cr	Tenmile Cr	County	Culvert	OK	100				
370118	1.1	Unnamed	Tenmile Cr	County	Culvert	RR	33	0	1	RSFS	6.51
370119	1.1	Unnamed	Cougar Cr	County	Culvert	OK	100				
370130	1.1	Unnamed	Fourmile Cr	County	Culvert	OK	100				
370140	1.1	Unnamed	Deer Cr	County	Culvert	LG				TD	
370156	1.1	Unnamed	Tenmile Cr	County	Culvert	OK	100				
370157	1.2	Unnamed	Fazon Lk	County	Culvert	OK	100				
370158	1.1	Unnamed	Fazon Lk	County	Culvert	OK	100				
370159	1.1	Unnamed	Tenmile Cr	County	Culvert	OK	100				
370160	1.1	Unnamed	Tenmile Cr	County	Culvert	RR	67				
370163	1.1	Clarkson Cr	Nooksack R	County	Culvert	OK	100				
370164	1.1	Unnamed	Cougar Cr	County	Culvert	OK	100				
370173	1.1	Unnamed	Silver Cr	County	Culvert	RR	33	1	3	RSFS	16.93
370191	1.1	Deer Cr	Tenmile Cr	County	Culvert	OK	100				
370192	1.1	Deer Cr	Tenmile Cr	County	Culvert	RR	67				
370196	1.1	Unnamed	Tenmile Cr	County	Culvert	RR	67				
370197	1.1	Unnamed	Tenmile Cr	County	Culvert	RR	67				
370198	1.1	Unnamed	Tenmile Cr	County	Culvert	OK	100				
370199	1.1	Unnamed	Shuksan Cr	County	Culvert	RR	33	0	1	RSFS	7.37
370205	1.1	Crystal Springs Cr	Tenmile Cr	County	Culvert	OK	100				
370227	1.2	Tenmile Cr	Nooksack R	County	Culvert	OK	100				

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Site ID	Sequencer ¹	Stream	Tributary To	Owner Type	Feature	Repair ² Status	% Passable	Additional Barriers		Survey Type ³	Total PI
								Upstream	Downstream		
370228	1.1	Unnamed	Shuksan Cr	County	Culvert	UD					
370229	1.1	Unnamed	Fazon Lk	County	Culvert	LG	67			TD	
370230	1.1	Unnamed	Fazon Lk	County	Culvert						
370231	1.1	Unnamed	Fazon Lk	County	Culvert	OK	100				
370255	1.1	Silver Cr	Nooksack R	County	Culvert	OK	100				
370286	1.1	Unnamed	Silver Cr	County	Culvert	OK	100				
370288	1.1	EF Elder Cr	Elder Cr	County	Culvert	OK	100				
370340	1.1	Andreasen Ditch	Silver Cr	County	Culvert	OK	100				
370341	1.1	Unnamed	Scott Cr	County	Culvert	OK	100				
370360	1.2	Unnamed	Silver Cr	County	Culvert	RR	67			TD	
370361	1.1	Unnamed	Airport Cr	County	Culvert	UD					
370362	1.1	Airport Cr	Bellingham Bay	County	Culvert	OK	100				
370369	1.1	Unnamed	Tenmile Cr	County	Culvert	RR	67			TD	
370370	1.1	Unnamed	Shuksan Cr	County	Culvert	UD					
370392	1.1	Neevel Cr	Nooksack R	County	Culvert	OK	100				
370396	1.1	Scott Ditch	Nooksack R	County	Culvert	OK	100				
370400	1.1	Unnamed	Starry Cr	County	Culvert	OK	100				
370401	1.1	Shuksan Cr	Tenmile Cr	County	Culvert	OK	100				
370402	1.1	Unnamed	Scott Cr	County	Culvert	RR	67	0	1	RSFS	5.83
370403	1.1	Scott Ditch	Nooksack R	County	Culvert	RR	67	1	1	RSFS	27.05
370421	1.1	Unnamed	Silver Cr	County	Culvert	RR	33	5	2	RSFS	23.36
370422	1.2	Bear Cr	Silver Cr	County	Culvert	OK	100				
370423	1.1	Silver Cr	Nooksack R	County	Culvert	OK	100				
370424	1.1	Silver Cr	Nooksack R	County	Culvert	OK	100				
370425	1.1	Unnamed	Silver Cr	County	Culvert	RR	33	3	0	RSFS	27.32
370426	1.1	Unnamed	Silver Cr	County	Culvert	LG				TD	

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								Upstream	Downstream		
370427	1.1	Unnamed	Silver Cr	County	Culvert	RR	67			TD	
370429	1.1	Neevel Cr	Nooksack R	County	Culvert	OK	100				
370430	1.1	Clarkson Cr	Nooksack R	County	Culvert	LG	67			TD	
370431	1.1	Cougar Cr	Nooksack R	County	Culvert	OK	100				
370478	1.1	Unnamed	Silver Cr	County	Culvert	RR	33	4	0	RSFS	19.05
370479	1.1	Unnamed	Silver Cr	County	Culvert	RR	33	1	0	RSFS	5.33
370501	1.1	Silver Cr	Nooksack R	County	Culvert	RR	67	10	0	RSFS	27.08
370502	1.1	Silver Cr	Nooksack R	County	Culvert	UD					
370519	1.1	Unnamed	Starry Cr	County	Culvert	LG				TD	
370520	1.1	Starry Cr	Tenmile Cr	County	Culvert	OK	100				
370521	1.1	Unnamed	Starry Cr	County	Culvert	OK	100				
370539	1.1	Silver Cr	Nooksack R	County	Culvert	OK	100				
370545	1.1	Unnamed	Tenmile Cr	County	Culvert	UD	67			TD	
370546	1.1	Scott Ditch	Nooksack R	County	Culvert	OK	100				
370547	1.1	Scott Ditch	Nooksack R	County	Culvert	OK	100				
370570	1.1	Unnamed	Silver Cr	County	Culvert	RR	33	2	2	RSFS	11.00
370582	1.1	Unnamed	Deer Cr	County	Culvert	OK	100				
370584	1.1	Unnamed	Deer Cr	County	Culvert	LG				TD	
370588	1.1	Unnamed	Tenmile Cr	County	Culvert	OK	100				
370589	1.1	Unnamed	Tenmile Cr	County	Culvert	OK	100				
370593	1.1	Unnamed	Tenmile Cr	County	Culvert	RR	0	1	0	RSFS	10.02
370594	1.1	Unnamed	Cougar Cr	County	Culvert	UD					
370595	1.1	SF Deer Cr	Deer Cr	County	Culvert	UD					
370597	1.1	Andreason Ditch	Silver Cr	County	Culvert	OK	100				
370603	1.1	Airport Cr	Bellingham Bay	County	Culvert	RR	67			TD	
370617	1.1	Unnamed	Tenmile Cr	County	Culvert	LG	33			TD	

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³ Survey Type: TD – Threshold Determination, LME – Lineal Map Estimate, ETD – Expanded threshold determination, UETD – Unexpanded Threshold Determination, FS, PS – Full habitat Survey, RSFS – Reduced Sampling Physical Survey.

Site ID	Sequencer ¹	Stream	Tributary To	Owner Type	Feature	Repair ² Status	% Passable	Additional Barriers		Survey Type ³	Total PI
								Upstream	Downstream		
370618	1.1	Unnamed	Silver Cr	County	Culvert	OK	100				
370619	1.1	Unnamed	Silver Cr	County	Culvert	LG	33			TD	
981803	1.1	Unnamed	Tennant Cr	County	Culvert						
981804	1.1	Unnamed	Tennant Cr	County	Culvert						
981805	1.1	Unnamed	Tennant Cr	County	Culvert						
981806	1.1	Unnamed	Tennant Cr	County	Culvert	OK	100				
981807	1.1	Unnamed	Tennant Cr	County	Culvert						
981810	1.2	Tennant Cr	Silver Cr	County	Culvert	OK	100				
981811		Unnamed	Tennant Cr	State	Dam	RR	67	0	0	PS4	17.32
981812	1.1	Tennant Cr	Silver Cr	State	Culvert	OK	100				
981813	1.1	Tennant Cr	Silver Cr	Private	Culvert	OK	100				
981814		Claypit Pond	Tennant Cr	State	Dam	RR	67	0	0	PS4	15.33
990112	1.1	Deer Cr	Tenmile Cr	State	Culvert	RR	33	15	3	PS3	31.44
990509	1.1	Unnamed	Green Lk	State	Culvert	OK	100				
993028	1.1	Deer Cr	Tenmile Cr	Private	Culvert	OK	100				
993029	1.1	Deer Cr	Tenmile Cr	Private	Culvert	RR	67	15	2	ETD	33.33
993030	1.1	Deer Cr	Tenmile Cr	County	Culvert	OK	100				
993031	1.1	Deer Cr	Tenmile Cr	Private	Culvert	RR	67	18	0	PS3	34.19
993034	1.1	Deer Cr	Tenmile Cr	County	Culvert	OK	100				
993036	1.1	Deer Cr	Tenmile Cr	Private	Culvert	OK	100				
993037	1.2	Deer Cr	Tenmile Cr	County	Culvert	OK	100				
994258	1.1	Deer Cr	Tenmile Cr	Private	Culvert	RR	67	13	3	PS3	32.43
994259	1.1	Deer Cr	Tenmile Cr	Private	Culvert	OK	100				
994260	1.1	Deer Cr	Tenmile Cr	Private	Culvert	RR	67	12	4	PS3	30.38
994261	1.2	Deer Cr	Tenmile Cr	Private	Culvert	RR	33	11	5	PS3	35.62
994358	1.1	Deer Cr	Tenmile Cr	Private	Culvert	OK	100				

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³ Survey Type: TD – Threshold Determination, LME – Lineal Map Estimate, ETD – Expanded threshold determination, UETD – Unexpanded Threshold Determination, FS, PS – Full habitat Survey, RSFS – Reduced Sampling Physical Survey.

Site ID	Sequencer ¹	Stream	Tributary To	Owner Type	Feature	Repair ² Status	% Passable	Additional Barriers		Survey Type ³	Total PI
								Upstream	Downstream		
994359	1.1	Deer Cr	Tenmile Cr	Private	Culvert	RR	67	3	6	PS3	17.63
994360	1.1	Deer Cr	Tenmile Cr	Private	Culvert	RR	67	2	7	PS3	17.42
994361	1.2	Deer Cr	Tenmile Cr	Private	Culvert	RR	0	1	6	PS3	22.56
994362	1.2	Deer Cr	Tenmile Cr	County	Culvert	RR	67	0	7	PS3	16.02
994363	1.1	SF Deer Cr	Deer Cr	County	Culvert	RR	0	6	0	PS3	33.27
994364	1.1	SF Deer Cr	Deer Cr	Private	Culvert	RR	67	4	2	PS3	25.89
994365	1.2	SF Deer Cr	Deer Cr	Private	Culvert	RR	33	5	1	PS3	31.21
994366	1.1	SF Deer Cr	Deer Cr	Private	Culvert	RR	0	3	7	PS3	33.79
994367		SF Deer Cr	Deer Cr	Private	Dam	RR	0	2	4	PS3	19.30
994368		SF Deer Cr	Deer Cr	Private	Dam	RR	0	1	5	PS3	8.59
994369		SF Deer Cr	Deer Cr	Private	Dam	LG	0	0	6	TD	
995701	1.1	Unnamed	Silver Cr	State	Culvert						
995702	1.1	Unnamed	Silver Cr	State	Culvert						
995703	1.1	Unnamed	Silver Cr	State	Culvert	LG	33	0		UETD	
995704	1.1	Silver Cr	Nooksack R	State	Culvert	OK	100				
995707	1.1	Unnamed	Silver Cr	State	Culvert						
995708	1.1	Unnamed	Silver Cr	State	Culvert						
995709	1.1	Unnamed	Silver Cr	State	Culvert	OK	100				
995723	1.1	Unnamed	Silver Cr	State	Culvert	OK	100				
995800	1.1	Unnamed	Silver Cr	State	Culvert	OK	100				
996168	1.1	Unnamed	Green Lk	State	Culvert						

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³ Survey Type: TD – Threshold Determination, LME – Lineal Map Estimate, ETD – Expanded threshold determination, UETD – Unexpanded Threshold Determination, FS, PS – Full habitat Survey, RSFS – Reduced Sampling Physical Survey.

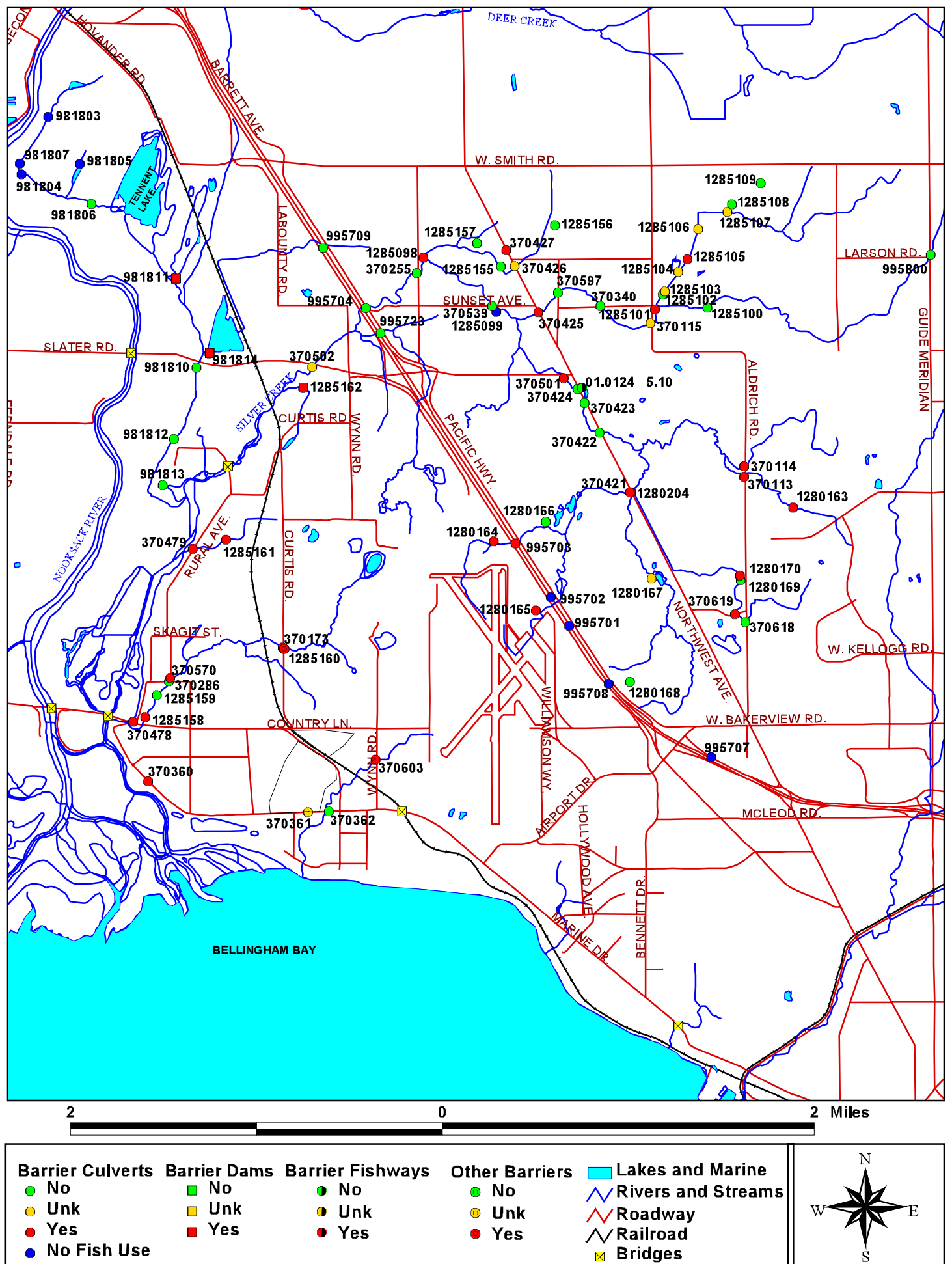





Figure 1. Silver Creek Features.




Tenmile Culvert Barriers:

PI TOTAL:	46.59	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	01.0165 5.60	Shape:	BOX
		Stream:	Deer Cr	Material:	CPC
		Trib To:	Tenmile Cr	Span (m):	4.40
		Owner:	Private	Length (m):	6.39
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	5,537
		Ds Barriers:	2	Spawn Area (m2):	1,697
		Us Barriers:	14	Rear Area (m2):	16,283





PI TOTAL:	36.16	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	1285111	Shape:	ARCH
		Stream:	Scott Ditch	Material:	CPC
		Trib To:	Nooksack R	Span (m):	1.65
		Owner:	Private	Length (m):	3.75
		BARRIER STATUS	HABITAT GAIN		
		Problem:	slope	Lineal Gain (m):	11,117
		Ds Barriers:	0	Spawn Area (m2):	7,379
		Us Barriers:	3	Rear Area (m2):	10,171

PI TOTAL:	35.62	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994261	Shape:	RND
		Stream:	Deer Cr	Material:	CST
		Trib To:	Tenmile Cr	Span (m):	0.93
		Owner:	Private	Length (m):	6.00
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	3,888
		Ds Barriers:	5	Spawn Area (m2):	742
		Us Barriers:	11	Rear Area (m2):	9,369

PI TOTAL:	35.62	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994261	Shape:	RND
		Stream:	Deer Cr	Material:	CST
		Trib To:	Tenmile Cr	Span (m):	0.93
		Owner:	Private	Length (m):	6.00
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	3,888
		Ds Barriers:	5	Spawn Area (m2):	742
		Us Barriers:	11	Rear Area (m2):	9,369





Culvert Shape: RND = Round, BOX = Rectangular, ARCH = Bottomless arch, SQSH = Pipe arch, ELL = Ellipse, OTH = Other.
Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonry, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	34.19	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 993031	Shape: RND
		Stream: Deer Cr	Material: OTH
		Trib To: Tenmile Cr	Span (m): 1.70
		Owner: Private	Length (m): 3.96
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope	Lineal Gain (m):
		Ds Barriers: 0	Spawn Area (m2): 3,823
		Us Barriers: 18	Rear Area (m2): 38,896
PI TOTAL:	33.79	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 994366	Shape: RND
		Stream: SF Deer Cr	Material: OTH
		Trib To: Deer Cr	Span (m): 0.50
		Owner: Private	Length (m): 4.50
		BARRIER STATUS	HABITAT GAIN
		Problem: Undersized/Blocka	Lineal Gain (m): 777
		Ds Barriers: 7	Spawn Area (m2): 130
		Us Barriers: 3	Rear Area (m2): 5,454
PI TOTAL:	33.33	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 993029	Shape: RND
		Stream: Deer Cr	Material: CST
		Trib To: Tenmile Cr	Span (m): 0.91
		Owner: Private	Length (m): 5.66
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope	Lineal Gain (m): 10,613
		Ds Barriers: 2	Spawn Area (m2): 3,524
		Us Barriers: 15	Rear Area (m2): 35,010
PI TOTAL:	33.27	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 994363	Shape: RND
		Stream: SF Deer Cr	Material: PCC
		Trib To: Deer Cr	Span (m): 0.91
		Owner: County	Length (m): 31.21
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope	Lineal Gain (m): 1,025
		Ds Barriers: 0	Spawn Area (m2): 295
		Us Barriers: 6	Rear Area (m2): 5,730





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CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	32.43	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285150 Stream: Tenmile Cr Trib To: Nooksack R Owner: Private	Shape: BOX Material: CPC Span (m): 2.50 Length (m): 4.10
		BARRIER STATUS	HABITAT GAIN
		Problem: Outfall drop Ds Barriers: 0 Us Barriers: 7	Lineal Gain (m): 12,246 Spawn Area (m2): 2,098 Rear Area (m2): 13,138
PI TOTAL:	32.43	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285150 Stream: Tenmile Cr Trib To: Nooksack R Owner: Private	Shape: RND Material: CST Span (m): 1.83 Length (m): 9.55
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 0 Us Barriers: 7	Lineal Gain (m): 12,246 Spawn Area (m2): 2,098 Rear Area (m2): 13,138
PI TOTAL:	32.43	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 994258 Stream: Deer Cr Trib To: Tenmile Cr Owner: Private	Shape: RND Material: CST Span (m): 1.50 Length (m): 7.00
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 3 Us Barriers: 13	Lineal Gain (m): 4,825 Spawn Area (m2): 1,098 Rear Area (m2): 12,461
PI TOTAL:	31.44	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 990112 Stream: Deer Cr Trib To: Tenmile Cr Owner: State	Shape: BOX Material: PCC Span (m): 1.22 Length (m): 14.63
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 3 Us Barriers: 15	Lineal Gain (m): 7,609 Spawn Area (m2): 2,060 Rear Area (m2): 20,821





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 MRY = Masonry, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	31.21	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994365	Shape:	RND
		Stream:	SF Deer Cr	Material:	PVC
		Trib To:	Deer Cr	Span (m):	0.20
		Owner:	Private	Length (m):	4.43
		BARRIER STATUS		HABITAT GAIN	
		Problem:	Slope	Lineal Gain (m):	822
		Ds Barriers:	1	Spawn Area (m2):	160
		Us Barriers:	5	Rear Area (m2):	5,504
PI TOTAL:	31.21	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994365	Shape:	RND
		Stream:	SF Deer Cr	Material:	PVC
		Trib To:	Deer Cr	Span (m):	0.20
		Owner:	Private	Length (m):	4.30
		BARRIER STATUS		HABITAT GAIN	
		Problem:	Slope	Lineal Gain (m):	822
		Ds Barriers:	1	Spawn Area (m2):	160
		Us Barriers:	5	Rear Area (m2):	5,504
PI TOTAL:	30.38	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994260	Shape:	RND
		Stream:	Deer Cr	Material:	CST
		Trib To:	Tenmile Cr	Span (m):	1.20
		Owner:	Private	Length (m):	5.81
		BARRIER STATUS		HABITAT GAIN	
		Problem:	Slope	Lineal Gain (m):	4,069
		Ds Barriers:	4	Spawn Area (m2):	820
		Us Barriers:	12	Rear Area (m2):	9,824
PI TOTAL:	27.32	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	370425	Shape:	RND
		Stream:	Unnamed	Material:	PCC
		Trib To:	Silver Cr	Span (m):	1.52
		Owner:	County	Length (m):	42.98
		BARRIER STATUS		HABITAT GAIN	
		Problem:	Slope	Lineal Gain (m):	5,388
		Ds Barriers:	0	Spawn Area (m2):	5,578
		Us Barriers:	3	Rear Area (m2):	7,664


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MRY = Masonry, OTH = Other


Tenmile Culvert Barriers:


PI TOTAL:	27.08	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 370501 Stream: Silver Cr Trib To: Nooksack R Owner: County	Shape: RND Material: PCC Span (m): 1.83 Length (m): 29.87
		BARRIER STATUS	HABITAT GAIN
		Problem: Velocity Ds Barriers: 0 Us Barriers: 10	Lineal Gain (m): 11,163 Spawn Area (m2): 4,081 Rear Area (m2): 27,589
PI TOTAL:	27.05	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 370403 Stream: Scott Ditch Trib To: Nooksack R Owner: County	Shape: BOX Material: PCC Span (m): 1.83 Length (m): 15.54
		BARRIER STATUS	HABITAT GAIN
		Problem: Velocity Ds Barriers: 1 Us Barriers: 1	Lineal Gain (m): 3,036 Spawn Area (m2): 6,274 Rear Area (m2): 6,989
PI TOTAL:	25.89	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 994364 Stream: SF Deer Cr Trib To: Deer Cr Owner: Private	Shape: RND Material: CAL Span (m): 0.50 Length (m): 3.38
		BARRIER STATUS	HABITAT GAIN
		Problem: undersized Ds Barriers: 2 Us Barriers: 4	Lineal Gain (m): 800 Spawn Area (m2): 145 Rear Area (m2): 5,480
PI TOTAL:	24.55	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285101 Stream: Unnamed Trib To: Silver Cr Owner: Private	Shape: RND Material: PCC Span (m): 1.23 Length (m): 7.50
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 2 Us Barriers: 1	Lineal Gain (m): 3,987 Spawn Area (m2): 4,523 Rear Area (m2): 4,208

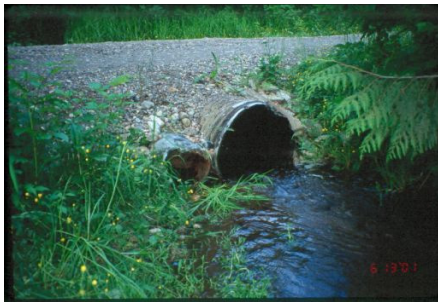
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 Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
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Tenmile Culvert Barriers:

PI TOTAL:	24.48	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	1280154	Shape:	RND
		Stream:	Tenmile Cr	Material:	CST
		Trib To:	Nooksack R	Span (m):	0.90
		Owner:	Private	Length (m):	6.10
		BARRIER STATUS	HABITAT GAIN		
		Problem:	slope,	Lineal Gain (m):	1,637
		Ds Barriers:	1	Spawn Area (m2):	2,098
		Us Barriers:	2	Rear Area (m2):	2,352





PI TOTAL:	23.36	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	370421	Shape:	RND
		Stream:	Unnamed	Material:	CST
		Trib To:	Silver Cr	Span (m):	0.91
		Owner:	County	Length (m):	17.37
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	4,896
		Ds Barriers:	2	Spawn Area (m2):	27
		Us Barriers:	5	Rear Area (m2):	21,704

PI TOTAL:	22.56	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994361	Shape:	SQSH
		Stream:	Deer Cr	Material:	CST
		Trib To:	Tenmile Cr	Span (m):	0.80
		Owner:	Private	Length (m):	6.13
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	844
		Ds Barriers:	6	Spawn Area (m2):	41
		Us Barriers:	1	Rear Area (m2):	1,566

PI TOTAL:	22.56	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994361	Shape:	RND
		Stream:	Deer Cr	Material:	CST
		Trib To:	Tenmile Cr	Span (m):	0.46
		Owner:	Private	Length (m):	6.05
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	844
		Ds Barriers:	6	Spawn Area (m2):	41
		Us Barriers:	1	Rear Area (m2):	1,566





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Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonry, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	19.56	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285116 Stream: Unnamed Trib To: Tenmile Cr Owner: Private	Shape: RND Material: CST Span (m): 0.92 Length (m): 8.97
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 0 Us Barriers: 1	Lineal Gain (m): 788 Spawn Area (m2): 702 Rear Area (m2): 1,092
PI TOTAL:	19.22	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 370114 Stream: Silver Cr Trib To: Nooksack R Owner: County	Shape: RND Material: PCC Span (m): 0.91 Length (m): 23.77
		BARRIER STATUS	HABITAT GAIN
		Problem: Outfall drop Ds Barriers: 1 Us Barriers: 1	Lineal Gain (m): 1,960 Spawn Area (m2): 2,067 Rear Area (m2): 1,335
PI TOTAL:	19.22	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 370114 Stream: Silver Cr Trib To: Nooksack R Owner: County	Shape: RND Material: PCC Span (m): 0.61 Length (m): 22.86
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 1 Us Barriers: 1	Lineal Gain (m): 1,960 Spawn Area (m2): 2,067 Rear Area (m2): 1,335
PI TOTAL:	19.05	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 370478 Stream: Unnamed Trib To: Silver Cr Owner: County	Shape: RND Material: CAL Span (m): 0.91 Length (m): 30.48
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 0 Us Barriers: 4	Lineal Gain (m): 3,467 Spawn Area (m2): 894 Rear Area (m2): 2,367


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 MRY = Masonary, OTH = Other


Tenmile Culvert Barriers:


PI TOTAL:	18.58	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285122 Stream: Unnamed Trib To: Fourmile Cr Owner: Private	Shape: RND Material: PVC Span (m): 0.46 Length (m): 9.00
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope	Lineal Gain (m): 1,772
		Ds Barriers: 1	Spawn Area (m2): 563
		Us Barriers: 0	Rear Area (m2): 2,658
PI TOTAL:	18.40	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285105 Stream: Unnamed Trib To: Silver Cr Owner: Private	Shape: RND Material: CAL Span (m): 1.22 Length (m): 7.15
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope	Lineal Gain (m): 1,753
		Ds Barriers: 3	Spawn Area (m2): 1,416
		Us Barriers: 0	Rear Area (m2): 1,337
PI TOTAL:	17.70	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285096 Stream: Silver Springs Cr Trib To: Tenmile Cr Owner: Private	Shape: RND Material: CST Span (m): 0.87 Length (m): 5.40
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope	Lineal Gain (m): 1,331
		Ds Barriers: 2	Spawn Area (m2): 39
		Us Barriers: 0	Rear Area (m2): 1,749
PI TOTAL:	17.63	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 994359 Stream: Deer Cr Trib To: Tenmile Cr Owner: Private	Shape: RND Material: SST Span (m): 0.61 Length (m): 5.11
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope	Lineal Gain (m): 1,108
		Ds Barriers: 6	Spawn Area (m2): 44
		Us Barriers: 3	Rear Area (m2): 1,837


Culvert Shape: RND = Round, BOX = Rectangular, ARCH = Bottomless arch, SQSH = Pipe arch, ELL = Ellipse, OTH = Other.
 Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
 CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
 MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	17.58	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	1285098	Shape:	RND
		Stream:	Unnamed	Material:	CST
		Trib To:	Silver Cr	Span (m):	1.06
		Owner:	Private	Length (m):	13.80
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	1,144
		Ds Barriers:	0	Spawn Area (m2):	853
		Us Barriers:	0	Rear Area (m2):	1,428


PI TOTAL:	17.42	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994360	Shape:	RND
		Stream:	Deer Cr	Material:	PCC
		Trib To:	Tenmile Cr	Span (m):	0.61
		Owner:	Private	Length (m):	5.28
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	993
		Ds Barriers:	7	Spawn Area (m2):	44
		Us Barriers:	2	Rear Area (m2):	1,698


PI TOTAL:	16.93	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	370173	Shape:	RND
		Stream:	Unnamed	Material:	PCC
		Trib To:	Silver Cr	Span (m):	0.61
		Owner:	County	Length (m):	17.68
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	1,083
		Ds Barriers:	3	Spawn Area (m2):	894
		Us Barriers:	1	Rear Area (m2):	1,058


PI TOTAL:	16.81	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	1285094	Shape:	RND
		Stream:	Silver Springs Cr	Material:	PCC
		Trib To:	Tenmile Cr	Span (m):	0.79
		Owner:	Private	Length (m):	64.50
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Depth and Velocity	Lineal Gain (m):	1,909
		Ds Barriers:	1	Spawn Area (m2):	105
		Us Barriers:	1	Rear Area (m2):	2,552


Culvert Shape: RND = Round, BOX = Rectangular, ARCH = Bottomless arch, SQSH = Pipe arch, ELL = Ellipse, OTH = Other.
Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonry, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	16.76	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	1285123	Shape:	RND
		Stream:	Unnamed	Material:	PVC
		Trib To:	Fourmile Cr	Span (m):	0.46
		Owner:	Private	Length (m):	8.70
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Velocity	Lineal Gain (m):	2,146
		Ds Barriers:	0	Spawn Area (m2):	563
		Us Barriers:	1	Rear Area (m2):	4,159

PI TOTAL:	16.02	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994362	Shape:	RND
		Stream:	Deer Cr	Material:	PCC
		Trib To:	Tenmile Cr	Span (m):	0.75
		Owner:	County	Length (m):	24.64
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	342
		Ds Barriers:	7	Spawn Area (m2):	31
		Us Barriers:	0	Rear Area (m2):	1,231

PI TOTAL:	16.02	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	994362	Shape:	RND
		Stream:	Deer Cr	Material:	PCC
		Trib To:	Tenmile Cr	Span (m):	0.75
		Owner:	County	Length (m):	25.13
		BARRIER STATUS	HABITAT GAIN		
		Problem:	Slope	Lineal Gain (m):	342
		Ds Barriers:	7	Spawn Area (m2):	31
		Us Barriers:	0	Rear Area (m2):	1,231

PI TOTAL:	14.48	GENERAL INFORMATION	CULVERT ATTRIBUTES		
		Site ID:	370227	Shape:	RND
		Stream:	Tenmile Cr	Material:	CST
		Trib To:	Nooksack R	Span (m):	0.91
		Owner:	County	Length (m):	39.30
		BARRIER STATUS	HABITAT GAIN		
		Problem:		Lineal Gain (m):	389
		Ds Barriers:	2	Spawn Area (m2):	0
		Us Barriers:	0	Rear Area (m2):	1,827

Culvert Shape: RND = Round, BOX = Rectangular, ARCH = Bottomless arch, SQSH = Pipe arch, ELL = Ellipse, OTH = Other.
Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonry, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL: 14.26



GENERAL INFORMATION

Site ID: 1280204
Stream: Unnamed
Trib To: Silver Cr
Owner: County

BARRIER STATUS

Problem: Length
Ds Barriers: 1
Us Barriers: 1

CULVERT ATTRIBUTES

Shape: RND
Material: CST
Span (m): 0.45
Length (m): 770.00

HABITAT GAIN

Lineal Gain (m): 1,058
Spawn Area (m2): 106
Rear Area (m2): 690

PI TOTAL: 14.24



GENERAL INFORMATION

Site ID: 1285081
Stream: Neevel Cr
Trib To: Nooksack R
Owner: Private

BARRIER STATUS

Problem: Slope
Ds Barriers: 1
Us Barriers: 0

CULVERT ATTRIBUTES

Shape: RND
Material: CST
Span (m): 0.77
Length (m): 6.00

HABITAT GAIN

Lineal Gain (m): 1,988
Spawn Area (m2): 0
Rear Area (m2): 5,284

PI TOTAL: 14.10



GENERAL INFORMATION

Site ID: 370113
Stream: Unnamed
Trib To: Silver Cr
Owner: County

BARRIER STATUS

Problem: Slope
Ds Barriers: 1
Us Barriers: 1

CULVERT ATTRIBUTES

Shape: RND
Material: PCC
Span (m): 1.22
Length (m): 30.18

HABITAT GAIN

Lineal Gain (m): 640
Spawn Area (m2): 880
Rear Area (m2): 264

PI TOTAL: 11.55



GENERAL INFORMATION

Site ID: 1285089
Stream: Unnamed
Trib To: Tenmile Cr
Owner: Private

BARRIER STATUS

Problem: Slope
Ds Barriers: 0
Us Barriers: 0

CULVERT ATTRIBUTES





Shape: RND
Material: SST
Span (m): 0.67
Length (m): 7.00

HABITAT GAIN

Lineal Gain (m): 318
Spawn Area (m2): 0
Rear Area (m2): 2,288





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Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	11.47	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285158 Stream: Unnamed Trib To: Silver Cr Owner: Private	Shape: RND Material: CST Span (m): 0.91 Length (m): 6.10
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 1 Us Barriers: 3	Lineal Gain (m): 3,257 Spawn Area (m2): 0 Rear Area (m2): 2,225
PI TOTAL:	11.00	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 370570 Stream: Unnamed Trib To: Silver Cr Owner: County	Shape: RND Material: CAL Span (m): 1.07 Length (m): 15.24
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 2 Us Barriers: 2	Lineal Gain (m): 2,833 Spawn Area (m2): 0 Rear Area (m2): 1,879
PI TOTAL:	10.41	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285117 Stream: Unnamed Trib To: Tenmile Cr Owner: Private	Shape: RND Material: PCC Span (m): 0.61 Length (m): 7.68
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 1 Us Barriers: 0	Lineal Gain (m): 162 Spawn Area (m2): 85 Rear Area (m2): 202
PI TOTAL:	10.02	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 370593 Stream: Unnamed Trib To: Tenmile Cr Owner: County	Shape: RND Material: CAL Span (m): 0.91 Length (m): 37.19
		BARRIER STATUS	HABITAT GAIN
		Problem: Outfall drop Ds Barriers: 0 Us Barriers: 1	Lineal Gain (m): 381 Spawn Area (m2): 0 Rear Area (m2): 868




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 Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
 CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
 MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	9.20	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1285092 Stream: Unnamed Trib To: Scott Cr Owner: Private	Shape: RND Material: PCC Span (m): 0.31 Length (m): 6.20
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 2 Us Barriers: 0	Lineal Gain (m): 1,003 Spawn Area (m2): 0 Rear Area (m2): 297
PI TOTAL:	8.66	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1280150 Stream: Starry Cr Trib To: Tenmile Cr Owner: Private	Shape: RND Material: CST Span (m): 0.95 Length (m): 17.00
		BARRIER STATUS	HABITAT GAIN
		Problem: velocity Ds Barriers: 1 Us Barriers: 2	Lineal Gain (m): 376 Spawn Area (m2): 390 Rear Area (m2): 724
PI TOTAL:	8.07	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 1280148 Stream: Starry Cr Trib To: Tenmile Cr Owner: Private	Shape: RND Material: PCC Span (m): 0.75 Length (m): 11.20
		BARRIER STATUS	HABITAT GAIN
		Problem: Slope Ds Barriers: 2 Us Barriers: 1	Lineal Gain (m): 72 Spawn Area (m2): 15 Rear Area (m2): 545
PI TOTAL:	7.37	GENERAL INFORMATION	CULVERT ATTRIBUTES
		Site ID: 370199 Stream: Unnamed Trib To: Shuksan Cr Owner: County	Shape: RND Material: PCC Span (m): 0.76 Length (m): 11.89
		BARRIER STATUS	HABITAT GAIN
		Problem: depth and Velocity Ds Barriers: 1 Us Barriers: 0	Lineal Gain (m): 535 Spawn Area (m2): 0 Rear Area (m2): 379


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 CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
 MRY = Masonry, OTH = Other


Tenmile Culvert Barriers:

PI TOTAL: 7.26		GENERAL INFORMATION		CULVERT ATTRIBUTES	
		Site ID:	1285084	Shape:	RND
		Stream:	Unnamed	Material:	PCC
		Trib To:	Tenmile Cr	Span (m):	0.46
		Owner:	Private	Length (m):	8.50
BARRIER STATUS		HABITAT GAIN			
Problem:		Slope	Lineal Gain (m):	539	
Ds Barriers:		0	Spawn Area (m2):	0	
Us Barriers:		1	Rear Area (m2):	358	
PI TOTAL: 6.51		GENERAL INFORMATION		CULVERT ATTRIBUTES	
		Site ID:	370118	Shape:	RND
		Stream:	Unnamed	Material:	PCC
		Trib To:	Tenmile Cr	Span (m):	0.46
		Owner:	County	Length (m):	10.97
BARRIER STATUS		HABITAT GAIN			
Problem:		Slope	Lineal Gain (m):	348	
Ds Barriers:		1	Spawn Area (m2):	0	
Us Barriers:		0	Rear Area (m2):	230	
PI TOTAL: 5.83		GENERAL INFORMATION		CULVERT ATTRIBUTES	
		Site ID:	370402	Shape:	RND
		Stream:	Unnamed	Material:	CAL
		Trib To:	Scott Cr	Span (m):	1.22
		Owner:	County	Length (m):	15.54
BARRIER STATUS		HABITAT GAIN			
Problem:		Slope	Lineal Gain (m):	660	
Ds Barriers:		1	Spawn Area (m2):	0	
Us Barriers:		0	Rear Area (m2):	301	
PI TOTAL: 5.60		GENERAL INFORMATION		CULVERT ATTRIBUTES	
No Image Available		Site ID:	1280170	Shape:	RND
		Stream:	Unnamed	Material:	PCC
		Trib To:	Silver Cr	Span (m):	0.38
		Owner:	Private	Length (m):	5.50
BARRIER STATUS		HABITAT GAIN			
Problem:		Slope	Lineal Gain (m):	408	
Ds Barriers:		2	Spawn Area (m2):	0	
Us Barriers:		0	Rear Area (m2):	127	


Culvert Shape: RND = Round, BOX = Rectangular, ARCH = Bottomless arch, SQSH = Pipe arch, ELL = Ellipse, OTH = Other.
Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	5.33	GENERAL INFORMATION		CULVERT ATTRIBUTES	
		Site ID:	370479	Shape:	RND
		Stream:	Unnamed	Material:	PCC
		Trib To:	Silver Cr	Span (m):	1.22
		Owner:	County	Length (m):	21.34
		BARRIER STATUS		HABITAT GAIN	
		Problem:	Slope	Lineal Gain (m):	4
		Ds Barriers:	0	Spawn Area (m2):	0
		Us Barriers:	1	Rear Area (m2):	104

PI TOTAL:	4.31	GENERAL INFORMATION		CULVERT ATTRIBUTES	
		Site ID:	1280149	Shape:	RND
		Stream:	Unnamed	Material:	CST
		Trib To:	Starry Cr	Span (m):	0.92
		Owner:	Private	Length (m):	9.40
		BARRIER STATUS		HABITAT GAIN	
		Problem:	Slope	Lineal Gain (m):	154
		Ds Barriers:	1	Spawn Area (m2):	98
		Us Barriers:	0	Rear Area (m2):	89

PI TOTAL:	3.93	GENERAL INFORMATION		CULVERT ATTRIBUTES	
No Image Available		Site ID:	1280164	Shape:	RND
		Stream:	Unnamed	Material:	CST
		Trib To:	Silver Cr	Span (m):	0.62
		Owner:	Private	Length (m):	155.00
		BARRIER STATUS		HABITAT GAIN	
		Problem:	Slope	Lineal Gain (m):	90
		Ds Barriers:	3	Spawn Area (m2):	0
		Us Barriers:	0	Rear Area (m2):	31

PI TOTAL:	3.68	GENERAL INFORMATION		CULVERT ATTRIBUTES	
		Site ID:	1280165	Shape:	RND
		Stream:	Unnamed	Material:	CST
		Trib To:	Silver Cr	Span (m):	0.46
		Owner:	Private	Length (m):	56.40
		BARRIER STATUS		HABITAT GAIN	
		Problem:	Slope	Lineal Gain (m):	134
		Ds Barriers:	3	Spawn Area (m2):	0
		Us Barriers:	0	Rear Area (m2):	23

Culvert Shape: RND = Round, BOX = Rectangular, ARCH = Bottomless arch, SQSH = Pipe arch, ELL = Ellipse, OTH = Other.
Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:



GENERAL INFORMATION

Site ID: 1285093
Stream: Scott Ditch
Trib To: Nooksack R
Owner: Private

BARRIER STATUS

Problem:
Ds Barriers:
Us Barriers:

CULVERT ATTRIBUTES

Shape: RND
Material: PCC
Span (m): 0.91
Length (m): 6.65

HABITAT GAIN

Lineal Gain (m):
Spawn Area (m2):
Rear Area (m2):

PI TOTAL:



GENERAL INFORMATION

Site ID: 1285091
Stream: Unnamed
Trib To: Tenmile Cr
Owner: Private

BARRIER STATUS

Problem: Slope
Ds Barriers:
Us Barriers:

CULVERT ATTRIBUTES

Shape: RND
Material: PCC
Span (m): 0.61
Length (m): 4.73

HABITAT GAIN

Lineal Gain (m):
Spawn Area (m2):
Rear Area (m2):

PI TOTAL:



GENERAL INFORMATION

Site ID: 1285083
Stream: Clarkson Cr
Trib To: Nooksack R
Owner: Private

BARRIER STATUS

Problem:
Ds Barriers:
Us Barriers:

CULVERT ATTRIBUTES

Shape: RND
Material: CST
Span (m): 0.92
Length (m): 15.20

HABITAT GAIN

Lineal Gain (m):
Spawn Area (m2):
Rear Area (m2):

PI TOTAL:



GENERAL INFORMATION

Site ID: 1285082
Stream: Neevel Cr
Trib To: Nooksack R
Owner: Private

BARRIER STATUS

Problem:
Ds Barriers:
Us Barriers:

CULVERT ATTRIBUTES



Shape: RND
Material: PVC
Span (m): 0.78
Length (m): 6.23

HABITAT GAIN

Lineal Gain (m):
Spawn Area (m2):
Rear Area (m2):



Culvert Shape: RND = Round, BOX = Rectangular, ARCH = Bottomless arch, SQSH = Pipe arch, ELL = Ellipse, OTH = Other.
Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 1280152	Shape: SQSH
	Stream: Tenmile Cr	Material: CST
	Trib To: Nooksack R	Span (m): 1.65
	Owner: Private	Length (m): 5.70
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 370196	Shape: RND
	Stream: Unnamed	Material: PCC
	Trib To: Tenmile Cr	Span (m): 0.46
	Owner: County	Length (m): 13.11
	BARRIER STATUS	HABITAT GAIN
	Problem: Depth	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370192	Shape: RND
	Stream: Deer Cr	Material: PCC
	Trib To: Tenmile Cr	Span (m): 0.61
	Owner: County	Length (m): 29.87
	BARRIER STATUS	HABITAT GAIN
	Problem: Slope	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 01.0191A 0.10	Shape: RND
	Stream: Unnamed	Material: CST
	Trib To: Tenmile Cr	Span (m): 0.76
	Owner: County	Length (m): 46.00
	BARRIER STATUS	HABITAT GAIN
	Problem: Slope	Lineal Gain (m): 409
	Ds Barriers: 2	Spawn Area (m2): 522
	Us Barriers: 0	Rear Area (m2): 267


Culvert Shape: RND = Round, BOX = Rectangular, ARCH = Bottomless arch, SQSH = Pipe arch, ELL = Ellipse, OTH = Other.
Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

<p>PI TOTAL:</p> 	<p>GENERAL INFORMATION</p> <p>Site ID: 01.0184 0.20</p> <p>Stream: Unnamed</p> <p>Trib To: Tenmile Cr</p> <p>Owner: Unknown</p> <p>BARRIER STATUS</p> <p>Problem: Slope</p> <p>Ds Barriers: 0</p> <p>Us Barriers: 2</p>	<p>CULVERT ATTRIBUTES</p> <p>Shape: RND</p> <p>Material: PCC</p> <p>Span (m): 0.91</p> <p>Length (m): 16.46</p> <p>HABITAT GAIN</p> <p>Lineal Gain (m): 1,958</p> <p>Spawn Area (m2): 110</p> <p>Rear Area (m2): 2,621</p>
<p>PI TOTAL:</p> 	<p>GENERAL INFORMATION</p> <p>Site ID: 1280163</p> <p>Stream: Unnamed</p> <p>Trib To: Silver Cr</p> <p>Owner: County</p> <p>BARRIER STATUS</p> <p>Problem: Velocity</p> <p>Ds Barriers:</p> <p>Us Barriers:</p>	<p>CULVERT ATTRIBUTES</p> <p>Shape: RND</p> <p>Material: CAL</p> <p>Span (m): 0.58</p> <p>Length (m): 19.61</p> <p>HABITAT GAIN</p> <p>Lineal Gain (m):</p> <p>Spawn Area (m2):</p> <p>Rear Area (m2):</p>
<p>PI TOTAL:</p> <p>No Image Available</p>	<p>GENERAL INFORMATION</p> <p>Site ID: 370424</p> <p>Stream: Silver Cr</p> <p>Trib To: Nooksack R</p> <p>Owner: County</p> <p>BARRIER STATUS</p> <p>Problem:</p> <p>Ds Barriers:</p> <p>Us Barriers:</p>	<p>CULVERT ATTRIBUTES</p> <p>Shape: RND</p> <p>Material: CST</p> <p>Span (m): 1.83</p> <p>Length (m): 31.39</p> <p>HABITAT GAIN</p> <p>Lineal Gain (m):</p> <p>Spawn Area (m2):</p> <p>Rear Area (m2):</p>
<p>PI TOTAL:</p> <p>No Image Available</p>	<p>GENERAL INFORMATION</p> <p>Site ID: 995703</p> <p>Stream: Unnamed</p> <p>Trib To: Silver Cr</p> <p>Owner: State</p> <p>BARRIER STATUS</p> <p>Problem: Slope</p> <p>Ds Barriers:</p> <p>Us Barriers: 0</p>	<p>CULVERT ATTRIBUTES</p> <p>Shape: RND</p> <p>Material: OTH</p> <p>Span (m): 0.46</p> <p>Length (m): 91.32</p> <p>HABITAT GAIN</p> <p>Lineal Gain (m): 110</p> <p>Spawn Area (m2):</p> <p>Rear Area (m2):</p>


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MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370619	Shape: RND
	Stream: Unnamed	Material: PCC
	Trib To: Silver Cr	Span (m): 0.46
	Owner: County	Length (m): 13.20
	BARRIER STATUS	HABITAT GAIN
	Problem: Obstructed	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370617	Shape: RND
	Stream: Unnamed	Material: CAL
	Trib To: Tenmile Cr	Span (m): 0.76
	Owner: County	Length (m): 12.20
	BARRIER STATUS	HABITAT GAIN
	Problem: Gradient	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 370603	Shape: RND
	Stream: Airport Cr	Material: CAL
	Trib To: Bellingham Bay	Span (m): 0.91
	Owner: County	Length (m): 10.97
	BARRIER STATUS	HABITAT GAIN
	Problem: Slope	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370547	Shape: RND
	Stream: Scott Ditch	Material: PCC
	Trib To: Nooksack R	Span (m): 1.83
	Owner: County	Length (m): 19.81
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):



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MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	GENERAL INFORMATION		CULVERT ATTRIBUTES	
	Site ID:	370546	Shape:	BOX
	Stream:	Scott Ditch	Material:	PCC
	Trib To:	Nooksack R	Span (m):	1.83
	Owner:	County	Length (m):	15.24
No Image Available	BARRIER STATUS		HABITAT GAIN	
	Problem:		Lineal Gain (m):	
	Ds Barriers:		Spawn Area (m2):	
	Us Barriers:		Rear Area (m2):	
PI TOTAL:	GENERAL INFORMATION		CULVERT ATTRIBUTES	
	Site ID:	370545	Shape:	RND
	Stream:	Unnamed	Material:	CAL
	Trib To:	Tenmile Cr	Span (m):	0.91
	Owner:	County	Length (m):	13.72
	BARRIER STATUS		HABITAT GAIN	
	Problem:	Depth	Lineal Gain (m):	
	Ds Barriers:		Spawn Area (m2):	
	Us Barriers:		Rear Area (m2):	
PI TOTAL:	GENERAL INFORMATION		CULVERT ATTRIBUTES	
	Site ID:	370539	Shape:	RND
	Stream:	Silver Cr	Material:	CAL
	Trib To:	Nooksack R	Span (m):	2.44
	Owner:	County	Length (m):	31.09
No Image Available	BARRIER STATUS		HABITAT GAIN	
	Problem:		Lineal Gain (m):	
	Ds Barriers:		Spawn Area (m2):	
	Us Barriers:		Rear Area (m2):	
PI TOTAL:	GENERAL INFORMATION		CULVERT ATTRIBUTES	
	Site ID:	370502	Shape:	SQSH
	Stream:	Silver Cr	Material:	CST
	Trib To:	Nooksack R	Span (m):	4.27
	Owner:	County	Length (m):	43.59
No Image Available	BARRIER STATUS		HABITAT GAIN	
	Problem:		Lineal Gain (m):	
	Ds Barriers:		Spawn Area (m2):	
	Us Barriers:		Rear Area (m2):	


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CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370431	Shape: RND
	Stream: Cougar Cr	Material: SST
	Trib To: Nooksack R	Span (m): 2.29
	Owner: County	Length (m): 15.24
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 370430	Shape: RND
	Stream: Clarkson Cr	Material: PCC
	Trib To: Nooksack R	Span (m): 1.07
	Owner: County	Length (m): 24.38
	BARRIER STATUS	HABITAT GAIN
	Problem: Depth	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370255	Shape: RND
	Stream: Silver Cr	Material: CST
	Trib To: Nooksack R	Span (m): 2.44
	Owner: County	Length (m): 37.19
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 370427	Shape: RND
	Stream: Unnamed	Material: PCC
	Trib To: Silver Cr	Span (m): 1.04
	Owner: County	Length (m): 14.02
	BARRIER STATUS	HABITAT GAIN
	Problem: Slope	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):



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Tenmile Culvert Barriers:

PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 1285110 Stream: Scott Ditch Trib To: Nooksack R Owner: Private	Shape: RND Material: CAL Span (m): 1.88 Length (m): 6.60
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370423 Stream: Silver Cr Trib To: Nooksack R Owner: County	Shape: RND Material: CST Span (m): 1.83 Length (m): 58.22
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370396 Stream: Scott Ditch Trib To: Nooksack R Owner: County	Shape: RND Material: CST Span (m): 1.52 Length (m): 12.50
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370392 Stream: Neevel Cr Trib To: Nooksack R Owner: County	Shape: RND Material: PCC Span (m): 0.76 Length (m): 15.24
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):



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 Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
 CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
 MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 370369	Shape: RND
	Stream: Unnamed	Material: CAL
	Trib To: Tenmile Cr	Span (m): 0.46
	Owner: County	Length (m): 17.98
	BARRIER STATUS	HABITAT GAIN
	Problem: Depth	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370362	Shape: RND
	Stream: Airport Cr	Material: PCC
	Trib To: Bellingham Bay	Span (m): 1.22
	Owner: County	Length (m): 17.37
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 370360	Shape: RND
	Stream: Unnamed	Material: PCC
	Trib To: Silver Cr	Span (m): 0.61
	Owner: County	Length (m): 10.97
	BARRIER STATUS	HABITAT GAIN
	Problem: Slope	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 995704	Shape: BOX
	Stream: Silver Cr	Material: CPC
	Trib To: Nooksack R	Span (m): 2.40
	Owner: State	Length (m): 103.76
	BARRIER STATUS	HABITAT GAIN
	Problem: None	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):


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CAL = Corrugated aluminum, SPS = Structural plate steel, SPA = Structural plate aluminum, PVC = Plastic, TMB = Timber,
MRY = Masonary, OTH = Other

Tenmile Culvert Barriers:

PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 370360	Shape: RND
	Stream: Unnamed	Material: PCC
	Trib To: Silver Cr	Span (m): 0.46
	Owner: County	Length (m): 10.97
	BARRIER STATUS	HABITAT GAIN
	Problem: Slope	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 370197	Shape: RND
	Stream: Unnamed	Material: PVC
	Trib To: Tenmile Cr	Span (m): 0.55
	Owner: County	Length (m): 14.33
	BARRIER STATUS	HABITAT GAIN
	Problem: Slope	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370163	Shape: RND
	Stream: Clarkson Cr	Material: PCC
	Trib To: Nooksack R	Span (m): 1.52
	Owner: County	Length (m): 20.42
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370160	Shape: RND
	Stream: Unnamed	Material: PCC
	Trib To: Tenmile Cr	Span (m): 1.52
	Owner: County	Length (m): 12.50
	BARRIER STATUS	HABITAT GAIN
	Problem: depth	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):

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Tenmile Culvert Barriers:

PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
	Site ID: 1285161	Shape: RND
	Stream: Unnamed	Material: CST
	Trib To: Silver Cr	Span (m): 0.61
	Owner: Private	Length (m): 18.20
	BARRIER STATUS	HABITAT GAIN
	Problem: Outfall drop and SI	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):
PI TOTAL:	GENERAL INFORMATION	CULVERT ATTRIBUTES
No Image Available	Site ID: 370429	Shape: RND
	Stream: Neevel Cr	Material: PCC
	Trib To: Nooksack R	Span (m): 1.07
	Owner: County	Length (m): 31.70
	BARRIER STATUS	HABITAT GAIN
	Problem:	Lineal Gain (m):
	Ds Barriers:	Spawn Area (m2):
	Us Barriers:	Rear Area (m2):

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Culvert Material: PCC = Pre-cast concrete, CPC = Cast in place concrete, CST = Corrugated steel, SST = Smooth Steel,
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MRY = Masonary, OTH = Other

Tenmile Barrier Dams:

PI TOTAL: 19.30



GENERAL INFORMATION

Site ID: 994367
Stream: SF Deer Cr
Trib To: Deer Cr
Owner: Private

BARRIER STATUS

Fish passage (%): 0
Ds Barriers: 4
Us Barriers: 2

DAM ATTRIBUTES

Dam Name
Height (m): 2
Span: Full

HABITAT GAIN

Lineal Gain (m): 581
Spawn Area (m2): 0
Rear Area (m2): 5,235

PI TOTAL: 17.32



GENERAL INFORMATION

Site ID: 981811
Stream: Unnamed
Trib To: Tennant Cr
Owner: State

BARRIER STATUS

Fish passage (%): 67
Ds Barriers: 0
Us Barriers: 0

DAM ATTRIBUTES

Dam Name
Height (m): 0.65
Span: Partial

HABITAT GAIN

Lineal Gain (m): 849
Spawn Area (m2): 0
Rear Area (m2): 14,677

PI TOTAL: 16.61



GENERAL INFORMATION

Site ID: 1285080
Stream: Neevel Cr
Trib To: Nooksack R
Owner: Private

BARRIER STATUS

Fish passage (%): 33
Ds Barriers: 0
Us Barriers: 1

DAM ATTRIBUTES

Dam Name Private-ROES 4
Height (m): 1.9
Span: Full

HABITAT GAIN

Lineal Gain (m): 158
Spawn Area (m2): 0
Rear Area (m2): 9,781

PI TOTAL: 15.33



GENERAL INFORMATION

Site ID: 981814
Stream: Claypit Pond
Trib To: Tennant Cr
Owner: State

BARRIER STATUS

Fish passage (%): 67
Ds Barriers: 0
Us Barriers: 0

DAM ATTRIBUTES


Dam Name
Height (m): 2
Span: Full


HABITAT GAIN

Lineal Gain (m): 475
Spawn Area (m2): 0
Rear Area (m2): 9,033

Tenmile Barrier Dams:


PI TOTAL:	8.59	GENERAL INFORMATION		DAM ATTRIBUTES	
		Site ID:	994368	Dam Name	
		Stream:	SF Deer Cr	Height (m):	1.5
		Trib To:	Deer Cr	Span:	Full
		Owner:	Private		
No Image Available		BARRIER STATUS		HABITAT GAIN	
		Fish passage (%):	0	Lineal Gain (m):	200
		Ds Barriers:	5	Spawn Area (m2):	0
		Us Barriers:	1	Rear Area (m2):	206

	PI TOTAL:	GENERAL INFORMATION		DAM ATTRIBUTES	
		Site ID:	1285162	Dam Name	None
		Stream:	Unnamed	Height (m):	4.5
		Trib To:	Silver Cr	Span:	Full
		Owner:	Private		
		BARRIER STATUS		HABITAT GAIN	
		Fish passage (%):	0	Lineal Gain (m):	
		Ds Barriers:		Spawn Area (m2):	
		Us Barriers:		Rear Area (m2):	

	PI TOTAL:	GENERAL INFORMATION		DAM ATTRIBUTES	
		Site ID:	994369	Dam Name	
		Stream:	SF Deer Cr	Height (m):	5
		Trib To:	Deer Cr	Span:	Full
		Owner:	Private		
		BARRIER STATUS		HABITAT GAIN	
		Fish passage (%):	0	Lineal Gain (m):	20
		Ds Barriers:	6	Spawn Area (m2):	
		Us Barriers:	0	Rear Area (m2):	

PI TOTAL:		GENERAL INFORMATION		DAM ATTRIBUTES	
		Site ID:	01.0184 0.10	Dam Name	Boxx Dam
		Stream:	Unnamed	Height (m):	
		Trib To:	Tenmile Cr	Span:	
		Owner:	Private		
No Image Available		BARRIER STATUS		HABITAT GAIN	
		Fish passage (%):	0	Lineal Gain (m):	
		Ds Barriers:		Spawn Area (m2):	
		Us Barriers:		Rear Area (m2):	

Other Miscellaneous Tenmile Barriers:

PI TOTAL: 16.93		GENERAL INFORMATION		BARRIER ATTRIBUTES	
		Site ID:	1285160	BarrierType:	Rip Rap Shelf
		Stream:	Unnamed		
		Trib To:	Silver Cr		
		Owner:	Private		
		BARRIER STATUS		HABITAT GAIN	
		Fish Passage (%):	33	Lineal Gain (m):	1,063
		Ds Barriers:	4	Spawn Area (m2):	894
		Us Barriers:	0	Rear Area (m2):	1,058