we were out for our normal ambient run in the Samish Basin on Tuesday, 3/29 and for storm sampling on Wednesday, 3/30. Results are below.

First, the calm before the storm, Tuesday's ambient run:

3/29/2011		
Location	Fecal coliform, cfu/100 mL	
Thomas Creek at Hwy 99	49	
Thomas Creek at F&S Grade Road	4.5	
Friday Creek at Prairie Rd	17	
Swede Creek at Grip Rd	31	
Samish River at Hwy 9	<1.8	
Samish River at Thomas Rd	7.8	
Alice Bay Pump Station	240	
Edison Slough at School	49	
Edison Pump Station	23	
North Edison Pump Station	140	
Colony Creek at Colony Rd	4.5	

Very low numbers in the streams, higher in the drainages. This sample continued the late winter pattern of mostly low fecal coliform counts, especially in the streams. The lab is now using an updated Standard Method for fecal coliform, hence the decimal places in the results.

We also sampled the whole Samish Basin on Wednesday in the middle of the rainstorm that brought almost 2" of precipitation to the lowlands, and more in the headwaters. All streams, ditches, and fields were full of water. The Samish rose from about 200 cfs to over 3,000 cfs and left its banks at Allen for the third time this water year. We sampled at Thomas Road at 8:30 am, then started at the headwaters and worked downstream, finishing again at Thomas Road at 11:00 am. This sample took place during the steep part of the river rise but not at the peak. The results (below) were a disappointment:

			Durillanta
Location	Site Number	Fecal Coliform, cfu/100 mL	Duplicate
Samish River at Thomas Rd at 0830	32	310	350
Samish River at Hwy 9	11	33	
Samish River at upper Prairie Rd	SAM3PR	350	
Parsons Creek at mouth	PAR	1600	
Samish River above Parsons Creek	SAMPAR	350	
Samish River at Double Creek Ln	SAMDCL	240	
Skarrup Creek at Double Creek Ln	SKAR	>1600	
Samish River at 1st Prairie Rd	SAM1PR	1600	
Samish River at Grip Road	SAMGRIP	920	
Swede Creek at Grip Rd	8	540	
Samish River at F&S Grade Rd	SAMFS	540	
Weir Creek Prairie Rd	WCPR	>1600	
Friday Creek at Prairie Rd	6	540	
Samish River at Hwy 99	SAMH99	240	
Thomas Creek at Hwy 99	3	1600	
Samish River at Chuckanut Drive	SAMCD	920	
Samish River at Thomas Rd at 1100	32	1600	540

3/30/2011

The Samish was relatively clean at Hwy 9, but had already picked up some bacteria by the next crossing (upper Prairie Road). Counts continued to rise downstream (with some fluctuations), and the tributaries were especially bad. This event has resulted in another closure of the shellfish beds.

For a little perspective, the maximum observed fecal coliform river loading (flow x concentration) for this event was 40 trillion coliform/day. The April 29, 2008 event produced a loading of 177 trillion coliform/day.

We also obtained a sample yesterday at near the peak of the hydrograph (3300 cfs). We will receive that result later today.