Tuesday, July 3 - Storm Team and County Rainfall 0.65" (WSU), river at 1050 cfs and peaking

Site Number	Site No.	Fecal coliform Result	Duplicate	Avg	Samish River loading (trillions per day)
Samish River at Thomas Rd 0825	32	2120	1720	1920	49
Bob Smith Creek at WDFW access (downstream)	BSCreek	6300	7120	6710	
Bob Smith Creek (Moody branch)at Bow Hill Rd (upstream)	BSup	4800			
Bob Smith Creek (Casino branch) at Bow Hill Rd (Upstream)	BSDarrk	6000			

Wednesday, July 4 - Storm Team	No additional rainfall, river at 577 cfs and falling				
Site Number	Site No.	Fecal coliform Result	Duplicate	Avg	Samish River loading (trillions per day)
Samish River at Thomas Rd 0825	32	420	500	460	6.5

Thursday, July 5 - County

No additional rainfall, river at 429 cfs and falling

Site Number	Site No.	Fecal coliform Result	Duplicate	Avg	Samish River loading (trillions per day)
Samish River at Hwy 9	11	130			
Samish River at upper Prairie Rd	SAM3PR	Not sampled			
Samish River above Parsons Creek	SAMPAR	33			
Parsons Creek at mouth	PAR	33			
Samish River at Double Creek Ln	SAMDCL	Not sampled			
Skarrup Creek at Double Creek Ln	SKAR	240			

Samish River at 1st Prairie Rd	SAM1PR	Not sampled				
Samish River at Grip Road	SAMGRIP	Not sampled				
Swede Creek at Grip Rd	8	130				
Samiah Divar at ESC Crada Dd	SAMFS	110				
Samish River at F&S Grade Rd	SAIVIFS	110				
Weir Creek Prairie Rd	WCPR	Not sampled				
Friday Creek at Prairie Rd	6	130				
Samish River at Hwy 99	SAMH99	Not sampled				
Bob Smith Creek at Hwy 99	BSCreek	350				
Thomas Creek at F&S Grade Rd	4	540				
Willard Creek at F&S	WILL	Not sampled				
Thomas Creek at Hwy 99	3	350				
Samish River at Chuckanut Drive	SAMCD	Not sampled			T	
Samish River at Thomas Rd 1430	32A	240	130	185		1.9
Alice Bay Pump Station	33	170				
Edison Slough at School	36	920				
Edison Pump Station	37	540				
North Edison Pump Station	38	280				
Colony Creek	39	130				

A few observations:

Reported rain amounts for 7/2 and 7/3 were higher at other stations in the basin – we have standardized on the WSU Mt Vernon station because of its reliability. Lowland amounts were over an inch in Bow and higher in the hills. The resultant river flow, over 1000 cfs, was a new record flow for the date and 16 times the median flow. The loading for that peak flow, 49 trillion bacteria per day, was just outside of the top ten loadings since the intensive Samish monitoring started in 2008. Because of lab holiday closure, the Storm Team volunteers analyzed samples taken by County staff. A full watershed sampling wasn't feasible for that system.

Recall that the closure criteria for Samish Bay shellfish harvest is 4.7 trillion bacteria per day, so the 7/3 sample exceeded that ten-fold, and the 7/4 sample also exceeded the criteria. Results from the 7/5 samples allowed the bay to be reopened on Saturday morning, one day early from the standard 5-day closure.

Bob Smith Creek has been a focus recently due to extremely high counts near the confluence with the Samish just west of Hwy 99. In previous samples, there has been a large difference between the upstream stations and the counts at the WDFW access near the confluence. For this event, however, the upstream counts were only slightly lower than the downstream counts, indicating that for this event, upstream sources were also evident.