

## QUARTERLY PROGRESS REPORT

For the Reporting Period: October 1, 2008 To December 31, 2008

Grant Recipient: Mason County

Grant Number: G0800631

Project Title: Mason County Stormwater Management Program Funding and Improvement/ Urban Water Quality LID Retrofit Project

Project Period: January 31, 2008 to June 30, 2011  
(Start and end date from grant agreement)

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Funding: Total Project Cost \$1,000,000; State Grant Amount \$750,000  
Expenditures to Date: \$ \_\_\_\_\_

### Task 1: Project Administration / Management

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### Task 2: Program Implementation

- Low Impact Development Stormwater Management, Ordinance 76-08, adopted June 10, 2008.
- Stormwater and Surface Water Utility, Ordinance No. 80-08, adopted June 17, 2008.
- Stormwater Management Ordinance 114-06 adopting the 2005 Ecology Manual, adopted November 14, 2006
- Hoodspout Rural Activity Center Stormwater Management Plan, Ordinance No. 119-08, adopted November 4, 2008.
- Subtask D- Established special water quality surveillance in North Bay. An area near Allyn is threatened with a shellfish harvesting downgrade due to fecal coliform pollution. Marine Stations 1 and 7 are currently classified as Approved, but are barely meeting the water quality criteria for an Approved classification. Stations 9, 550 and 549 are currently classified as Prohibited, though only station 550 does not meet standards for an Approved classification. All of these stations are near downtown Allyn. The shoreline and parts of downtown Allyn are sewered. The County has previously done service checks of all shoreline systems and dye or smoke tested many of the sewer connections in the downtown shoreline area. Any problems found were corrected. The sewer pump station in downtown Allyn recently received safety upgrades and some minor repairs such as regrouting small cracks in the pump chamber. After the repairs and improvements the pump chamber was dye tested. No leaks were found. The remaining potential sources of pollution are: unsewered areas in Allyn and along Sherwood Creek, pet waste and wildlife waste. Elevated fecal coliform counts have been identified in the past from stormwater discharges along the Allyn shoreline. Mason County and DOH jointly developed a sampling plan to assess the contribution of surface and stormwater drainages near the threatened marine stations. The plan called for sampling 7 shoreline sites twice monthly, once by Mason County and once by DOH. Mason County follows bacteriological sampling SOPs that have been

approved by Ecology as part of the Centennial Clean Water Fund Grant G0600378. The SOPs can be provided to Ecology if needed.

Table 1. North Bay sample results in fecal coliform/100 mL water

Site	Geometric Mean	# samples	05/14/08	05/27/08	06/10/08	06/23/08	07/08/08	07/22/08	08/13/08	08/21/08	09/16/08	09/22/08	10/08/08	10/23/08	11/12/08	11/20/08
			calc		calc	calc	calc	calc	calc	calc	calc	calc	calc	calc	calc	calc
NB-001	7.85	11	23	1.9	22	1.7	1.7	1600	7.8		1.9	1.7	33	1.9		
NB-002	267.86	11	2500	500	920	220		500	110		220	540	79	130		30
NB-003	165.07	4	11	30	2500											900
NB-004	43.68	13	170	80	33	1.7	11	130	7.8	900	240	49	13	2		900
NB-005	28.96	13	110	50	13	23	49	17	6.8	900	7	17	220	23		2
NB-006	165.91	13	920	11	49	46	920	300	110	240	110	130	920	110		300
NB-007	26.93	11	1.7		33	23	920	130	33	17	1.9	130	11			23
NB-008	275.17	8				2500	240		13	1700	900	540	170	30		
NB-009	1610.0 0	1													1610	
NB-010	30.00	1													30	
NB-011	80.00	1													80	
NB-012	170.00	1													170	
NB-013	50.00	1													50	
NB-014	50.00	1													50	
NB-015	1610.0 0	1													1610	
NB-016	1610.0 0	1													1610	

Sites 1 through 7 were the regularly sampled sites. Site 8 was added midway through the year when site 3 could no longer be sampled due to dry conditions. Site 8 is a seep just below the site 3 culvert. Sites 9 through 16 are storm event sampling sites.

### **Task 3: Stormwater Retrofit, LID Projects, and Planning**

- Subtask A: Evaluated water quality results in the Allyn area and initiated additional work at sites with elevated bacteriological counts. The house nearest site 2 was dye tested. No leaks were found in its connection to the sewer. Next, the sewer collection system for the RV park above surface water site 2 will be dye tested. Residents report frequent wildlife sightings at a fresh water pool just upstream of site 2. Mason County has a SOP for dye testing that is available to Ecology for review. Site 3 is a major storm water culvert. The upstream drainage was segmented and additional fecal coliform testing was done during a storm event. The storm water was also dyed during the storm event in order to assess contributing drainages to this culvert. Site 6 is a creek that drains below the downtown Allyn sewage pump station. One of the houses adjacent to the creek was not connected to the sewer until October 2007. It was anticipated that the correction would improve water quality. Until recently three large dogs have lived immediately upstream from site 6.
- Mason County assisted in applying for a grant funding for microbial source tracking in the Allyn area.