

Mason County Public Health
Hood Canal Marine Recovery Area On-site Septic System
Discovery and Pollution Abatement Project
Centennial Clean Water Fund
Grant # G1000278



Lilliwaup Estuary

2nd Quarter Report
April 1, 2011 – June 30, 2011
July 14, 2011

Prepared for
Washington State Department of Ecology

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Quarterly Report, April 1, 2011 – June 30, 2011

Work performed throughout the quarter:

Task 1 – Project Administration and Management

Mason County Public Health (MCPH) prepared and submitted 1st Quarter 2011:

- Quarterly report
- Payment vouchers
- Fiscal forms

Task 2- O&M Enhancement

- No additional parcel records were verified, scanned or indexed this quarter. To date, MCPH has verified, scanned and indexed 3844 parcels files within the Hood Canal study area.
- Records associated with 48 new septic permits, 327 record requests and ~324 OSS records associated with property reviews for building permits were verified, updated in Carmody and scanned this quarter.

Task 3- O&M Education

- No O&M education has occurred this quarter.

Task 4- Water Quality Monitoring

- MCPH performed monthly monitoring on the 303(d) fecal coliform listed streams during the months of April and May. Monitoring of all 12 streams was completed in April and May. After the May monitoring event, staff determined which streams did not meet the water quality standards. The three streams that did not meet the water quality standard are Big Bend, Deveraux and Trails End. Only those three streams were monitored in June.
- MCPH contacted DOE's EAP about potential data exclusion criteria for 303(d) listed streams. With the question, is there an amount of precipitation within a certain period of time where data would not be included, ie during a 100 year event? Although MCPH never received a response to the question, a more careful reading of DOE's Water Quality Policy led MCPH staff to believe that if data is collected it cannot be excluded. Therefore MCPH decided to include all monitoring event results.
- MCPH is concerned about DOE's current 'call for data' for freshwater listings as they may not include all of the data that MCPH has collected to consider the streams that have met the WQ standard for removal. Two different e-mails have been sent to DOE expressing this concern and Mason County has not received a response to either e-mail. DOE's current cut-off date is May 1, 2011, while MCPH 10th monitoring event within a twelve month period occurred May 2, 2011. This is an especially strange cut-off date since DOE is willing to accept data until August 30, 2011. MCPH hopes that DOE will consider all 10 events, or we will have to wait another four years for the next freshwater "call for data."

- MCPH hopes to segment the streams that did not meet the WQ standard, to better isolate where the pollution source(s) may be originating. Unfortunately, besides Deveraux, the other streams have only had two monitoring events with fecal coliform level above 50 fc/100mL. It will be hard to isolate the pollution source if all of the segmented results are relatively low.

The following is a summary of the monitoring results to date (not included in this table are the data pertaining to field parameters, flow/loading rates and nutrients).

303(d) Stream Monitoring Summary

303(d) listed Stream		GEO-MEAN	MIN	MAX	# of samples >100 FC	# of Samples	% of Samples >100FC	Meets WQ Standard
Big Bend	BG-01	31	8	1600	2	11	18%	Exceedance
Deveraux	DE-01	26	2	900	5	12	42%	Exceedance
Happy Hollow	HA-01	4	2	30	0	10	0%	NAP
Holyoake	HO-01	15	4	170	1	10	10%	NAP
Lilliwaup	LI-01	10	4	80	0	10	0%	NAP
Little Mission	LM-01	10	2	70	0	10	0%	NAP
Mulberg	MU-01	10	2	500	1	11	9%	NAP
Shoofly	SH-01	3	2	8	0	10	0%	NAP
Stimpson	ST-01	3	2	17	0	10	0%	NAP
Trails End	TE-01	23	2	300	2	11	18%	Exceedance
Twanoh Falls	TF-01	4	2	110	1	11	9%	NAP
Twanoh	TW-01	7	2	110	1	11	9%	NAP

* Based on the Extraordinary Primary Contact Water Quality Standard which requires that fecal coliform levels cannot exceed a geometric mean value of 50 colonies/100mL, with no more than 10% of all samples exceeding 100 colonies/100mL.
NAP – No Apparent Problem

Task 5- Septic System Sanitary Surveys

- Currently MCPH is not focusing on sanitary surveys around Hood Canal, both because of workload and the assumption that many homeowners are not full time residents.
- MCPH hopes to start performing sanitary surveys in the Deveraux, Trails End and Big Bend Watersheds this quarter since they did not meet the WQ Standard.