

**WA DEPARTMENT OF ECOLOGY
WATER QUALITY PROGRAM
PROGRESS REPORT FORM**

Funding Source: 319 Centennial DIF Revolving Fund
 Reclaimed Water Stormwater

Grant/Contract/Loan 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)

Recipient Organization: Mason County

Recipient Project Manager: Loretta Swanson / Charlie Butros
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Reporting Period: July 1, 2010 to September 30, 2010

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Funding: Total Eligible Cost: \$ 1,000,000
 Total Ecology Award: \$ 750,000
 Total Expenditures to Date: \$ 392,800.55

Task and Milestone Achievements (for current reporting period only)

Task 1: Project Administration / Management

Mason County hired a new Stormwater Program Coordinator/Manager, Loretta Swanson, during this quarter, and some time was spent for transition and orientation. Loretta served as Thurston County's stormwater utility manager for several years, including the utility creation and development period.

Task 2: Program Implementation

A. Public Education and Outreach

- Mason County Stormwater Program (SWMP Coordinator) has conducted bi-monthly meetings with Mason County Stormwater Workgroup to provide task updates and have dialogue/obtain feedback on grant implementation issues. Group includes staff members from Public Works, Community Development, Health, Mason Conservation District, and WSU Mason County Extension. Stormwater Implementation meetings held on the 2nd and 4th Thursdays of each month at Mason County Public Works.
- This quarter the citizen Stormwater Task force has been working on the
 - Task Force Mission Statement and Work Plan
 - Stormwater Design Manual briefing: overview, '92/'05 comparison, how applied in Mason County
 - Sub-committee review and recommendations on Public Education and Involvement Plan
 - Mason County's Comprehensive Stormwater Management Plan briefing: Plan overview and current implementation status
 - Status of current grant implementation (and how it relates to above)
 - Recommendations for Public Education and Involvement Plan
- WSU Mason County Extension staff attended, participated, and took the minutes for the three Stormwater Task Force meetings which occurred during the project period (July 22nd, August 19th, and September 21st). Minutes were prepared and supplied back to the Stormwater Coordinator for distribution to the Task Force members. In addition updates were presented at the meetings on the status of the Mason County Clean Water Public Education and Involvement Plan including the incorporation of feedback from task force members.
- Two Education Sub-committee meetings were held in September in regards to the Public Education and Involvement Plan and to gather input from Task Force members on education strategies and activities.
- Mason Conservation District Staff attended the Stormwater Advisory Task Force meetings held during this quarter.
- Mason Conservation District is working with Mason County Public Works -GIS Department to produce a map of LID projects around the County.
- WSU Extension staff compiled an outline of suggestions for the new Mason County Public Works Stormwater Website. This was submitted to the Stormwater Coordinator and shared at the September task force meeting for feedback. We are working to establish the site and compile content currently.
- WSU Mason County Extension, the Mason Conservation District and Mason County Public Works collaborated on small grant proposal from the Puget Sound Partnership which has resulted in a \$10,000 grant to help implement the Puget Sound Starts Here campaign in Mason County. For this campaign (estimated start date in November) the focus will be on reducing non-point pollution sources in stormwater runoff.
- WSU Extension in collaboration with the Mason County Public Health Department held 2 workshops during the reporting period with a total of 25 participants on the care and maintenance of on-site septic systems. The first was held on August 24th at the Skookum Hall in southern Mason County and the second was held on September 19th in Belfair. In preparation for this workshop a news release was circulated to all local media sources.
- WSU Extension and the WSU Native Plant Salvage Project held one Rain Garden Workshop on September 23rd for 67 participants. The workshop was held at the Mason County Public Works facility. In preparation for this workshop a news release was circulated to all local media sources which included an extensive background on the benefits of treating stormwater on-site.

- Mason Conservation District Staff held a pervious concrete workshop on July 26, 2010 at Pioneer School (funded through another grant) to educate the community about LID and pervious paving (20 participants).
- Mason Conservation District Staff continued to collaborate with Washington State University Mason County Extension (WSU) on development of the Mason County Stormwater Education and Outreach Plan, incorporating feedback from the Stormwater Task Force Education Subcommittee.
- Nearly two hundred storm drain markers have been adhered to the storm drains of Mason County via volunteers though the materials have been purchased with separate grant funding. A one day Watershed Academy was held in July with 4-H Day Campers marking the storm drains and two small trainings with 1) a troop of boy scouts and 2) an Eagle Scout have been conducted. The scouts are out this month affixing the Storm Drain Markers around the City of Shelton as a method of awareness and outreach.

Shoreline Property Owners Awareness & Information Assistance Program

- Outreach was conducted at the July and August Taylor Shellfish Seed Sales for shoreline landowners. Information regarding the following stormwater related topics was distributed: fertilizer use, septic maintenance, rain garden installation, use of native plants, and low impact development techniques.
- Shore Stewards in Mason County (500+) received three e-newsletters during the reporting period on 1) Low Impact Development, 2) Water Conservation and 3) Harmful Algal Blooms

B. SWMP Funding Plan

This quarter marked the initiation of the Otak scope of work (contract executed 6/15/2010). Mason County and the Otak team

- established communication/coordination routines,
- prepared a master schedule including consultant scope, grant deliverables, and Stormwater Task Force work plan,
- assessed schedule and made adjustments (most significant adjustment is a longer timeframe for the public outreach process around stormwater funding),
- continued data collection and sharing to support development of the gap analysis. This involved Mason County personnel completing an Otak-generated survey, Stormwater Program Coordinator/Manager conducting follow-up interviews with representatives from Mason County Health, Roads Maintenance, Utilities, Public Works and Community and Development, along with WSU Extension and Mason Conservation District, and
- began refinement of the public outreach process schedule and scope.

C. Develop and Implement Legal Authorities and Train Staff

- Four Public Work's staff members will be attending the "Stormwater Management Manual for Western Washington: Stormwater Site Plan Development Review for Phase II Municipal Stormwater Permittees" training in Lacey, Washington, November 10, 2010. Class was held by Resource Planning Associates. (**Terry Conley** – Engineer Tech, **Jeremy Graham** – Environmental Coordinator, **Fred Perryman** – Engineer Tech, **Alan Barbisco** – Project Engineer, and **Jonathan Peterson** - Engineer)

D. GIS Program Development

Work during this period focused on completing the county-wide culvert and catch basin inventory. Culverts and catch basins were field located, flow direction identified where possible, and outfalls located for many locations as well. Continued scoping occurred for the expansion of the Stormwater ArcViewer and GIS needs.

Task 3: Stormwater Retrofit, LID Projects, and Planning

A. Review and Plan Retrofit and LID Projects

- SWMP Coordinator had multiple office and on-site meetings with Mason County Public Works Director, Public Works staff, and projects' consultants and engineers regarding stormwater monitoring results, and results of initial feasibility reviews for the proposed stormwater projects in Belfair, Allyn, and Hoodsport.
 - a. BELFAIR:**

The Belfair project was in the final design stages during this period. Design narrative, plans, and probable cost was prepared by AHBL for 60% and 90% design, submitted to Ecology for review and comment, and revised accordingly. Final approval was received and the project construction began September 22, 2010. The pond, bio-swale and Old Belfair Highway work will be completed by Mason County road crews, while the Roy Boad Road work will be contracted out.
 - b. ALLYN:**

The Evans Street design work by Preferred Engineering continued during this period, and involved coordination with Filterra regarding design specifications.
 - c. HOODSPORT:**

The Finch Creek location design work by Preferred Engineering continued during this period, incorporating survey information collected by Mason County survey crew.
- The stormwater monitoring QAPP has been revised and resubmitted to Ecology by Mason County Public Health. According to the original QAPP, during the summer of 2010 Mason County Public Health was to prioritize the sampling sites and identify the top 10 sites to continue monitoring based on constituents that had elevated levels in the initial monitoring. Then, in the beginning of 2011, further prioritize and select 5 sites to continue monitoring. The original goal of this monitoring was to identify 3 sites for stormwater retrofits.

However, since Mason County Public Works has already selected three sites for retrofits: MCPH has proposed some modifications to the monitoring. Mason County Public Health performed pre-retrofit installation monitoring at the sites in Belfair and Allyn. Mason County Public Health has not performed any monitoring at the proposed location in Hoodsport. The proposed changes are:

1. To rank the monitoring results of the 15 sites and identify 5 sites (instead of 10) to continue monitoring
2. To monitor those 5 sites, 3 additional times through the wet weather. The original QAPP had a varying amount of samples based on stormwater parameter exceedances.
3. To continue monitoring for all constituents as originally outlined, except for PAHs (there were not levels above the MRL detected) and one site would not receive additional metal analysis. The original QAPP had varying parameters to be monitored based on stormwater parameter exceedances. In other words, four of the five monitoring locations will be analyzed for fecal coliform, cadmium, copper, lead, nickel, zinc, hardness, nitrate-nitrite-N, orthophosphorus-P, total suspended solids and MCPH will monitor for temperature, conductivity, salinity, dissolved oxygen and pH in the field. The fifth site (located in Belfair), will have all of the above parameters monitored except metals and hardness.
4. To collect additional samples at the Belfair retrofit site. The goal of this monitoring is to ensure that this discharge is only groundwater so that it can be rerouted to replenish an existing wetland, instead of routing it to the Belfair Safeway Plaza Stormwater Retrofit.
5. To perform effectiveness monitoring above and below the three retrofit sites, Mason County Public Works will also try to identify additional funding to support the additional monitoring.

Tasks/Milestones not achieved and why: N.A.

Potential Future Challenges to Performance (time delays, staff changes, etc.)

Mason Conservation District and WSU Extension will experience some staff transitions, with two members initiating Master's programs in the fall.

General Comments

List the cumulative totals for all numerically measurable accomplishments for this calendar year

(Example: amount of riparian area planted, length of fencing installed, technical assistance, conservation plans, etc)