

## QUARTERLY PROGRESS REPORT

For the Reporting Period: July 1, 2009 to September 30, 2009

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)

Recipient Contact: Charlie Butros / Kelle Medcalf  
100 W Public Works Drive  
Shelton WA 98584  
Phone: (360) 427-9670, Ext. 450  
Email: [kellem@co.mason.wa.us](mailto:kellem@co.mason.wa.us) / [charlesb@co.mason.wa.us](mailto:charlesb@co.mason.wa.us)  
(Name, address, telephone number, email address)

Ecology Contacts: Deborah Cornett, (360) 407-7269 Regional Office  
(Project Manager)  
Melanie Tyler, (360) 407-7039 Lacey Office  
(Financial Manager)

Funding: Total Project Cost \$1,000,000.; State Grant Amount \$750,000.  
Expenditures to Date: \$ 46,579.87

### Task 1: Project Administration / Management

F.

- Public Hearing Meeting for Amending the Mason County Code Title 17, by adding Chapter 17.80 Entitled Low Impact Development (LID) (**Ordinance 76-08**), June 10, 2008.
- Public Hearing Meeting for the Stormwater and Surface Utility (**Ordinance 80-08**), June 17, 2008.
- Public Hearing Meeting for Amending the Mason County Stormwater Management Ordinance 114-06 to adopt the 2005 Ecology Manual (**Ordinance 81-08**), June 17, 2008.
- Public Hearing Meeting for Hoodspout Rural Activity Center Stormwater Management Plan (**Ordinance 119-08**), November 4, 2008.
- Public Hearing Meeting for Countywide Stormwater Management Plan (**Ordinance 33-09**), April 14, 2009.
- Project Meeting held July 8, 2009 –Public Works Training Room with Ecology Staff (Melanie and Deborah) along with County Staff (Charlie, Emmett, Rick H., Kelle, Karen, Jennifer, and Debbie) to discuss Grant Coordination. Along with a site visit to current site that we would like to keep sampling under this grant (Sites supported under other Ecology Grants) to continue validating to continue

researching the effectiveness of the treatment. (Gave copies of existing project sites and proposed sites)

- Stormwater Grant Task Meetings held twice a month with all agencies involved – Mason County Health Department, Utilities & Waste Management, Public Works, Mason Conservation District, and WSU.
- Briefed the Department of Ecology on the Water Resource Inventory Area (WRIA 16) Watershed Management Plan.
- Inter-Agency Agreements between partnering agencies working on this grant have been established (Mason County Health Department, Utilities & Waste Management, Public Works, Mason Conservation District, and WSU).

## **Task 2: Program Implementation**

### A.

- In the process of developing a Stormwater Volunteer Resource Pool.
- Public Education / Involvement Program: WSU Extension and Mason Conservation District working on scope and form of training.
  - Participated in planning and coordination meetings with Mason County has been planning and coordinating meetings with Mason Conservation District and WSU Extension to develop a collaborative scope of work.
  - Began initial strategizing for outreach focus areas, including identification of subareas within Mason County with distinct stormwater issues based on local soils, hydrology etc.
  - Reviewed Surface Water Management Public Education Plans from a variety of other jurisdictions for use as a Mason County template.
  - Conducted a survey to identify and assess current stormwater education programs in Mason County.
  - Initiated planning, preparation, and publicity for Rain Garden workshop to be held October 29, 2009 in Belfair.
  - WSU Extension and Mason Conservation District are completing the first draft of the Mason County Stormwater Public Education Plan.
  - Stormwater Management Videoconference: One Back Yard at a Time; September 15, 2009 / 9:00am -11:30am, Public Works Training Room.
  - Mason Conservation District held two Backyard Stormwater Management workshops for County homeowners on August 25<sup>th</sup> and October 1<sup>st</sup> (with a combined total of 31 participants).
  - Mason Conservation District provided direct stormwater technical assistance to twelve Mason County residents.
  - Mason Conservation District included a stormwater management page in the Summer 2009 edition of "Watershed Wise" newsletter, distributed to County residents.
  - Researching and reviewing other public stormwater education plans.

### B.

- County Department managers met on May 22<sup>nd</sup> and June 17<sup>th</sup>, 2009 to discuss the tasks and responsibilities of activities needed to be performed for the Implementation Grant. Tasks were outlined and expenditures were planned for the activities. Discussions will continue and a meeting with Ecology staff is planned to address questions on the approach and billing for work.

- Advertising to hire a Stormwater Program Coordinator/Program Manager I; responsible for planning, developing guidelines, and implementing requirements and ordinances for the County's stormwater program.
- Currently we are evaluating Stormwater Consultants that are on our Professional Services Roster to assist/design some of the stormwater projects.

C.

- Developed/Implemented the 2005 Ecology Manual into the Mason County Stormwater Management Ordinance (81-08), Adopted June 17, 2008.
- Low Impact Development Ordinance (LID)
  - Briefed Commissioners on February 1, 2008 and March 12, 2008.
  - Applies to for Belfair and Allyn UGA and developed 5 schedules to apply the requirements to other areas of Mason County.
  - Public Hearing with the Planning Advisory Commission (PAC) for review and approval of LID Ordinance, March 24, 2008.
  - Public Hearing with the Mason County Commissioners for approval and adoption of the LID Ordinance (Ordinance No. 76-08), June 10, 2008.
  - Training County Staff -WSU Extension provided a one-day WSU Water Resources Realtor Education Program on **Low Impact Development** to 28 participants including: real estate professionals, including appraisers, planners, developers and the general public. Various speakers presented on stormwater issues, soils, LID principles and techniques, and LID Ordinances. Also included were field visits to view local LID demonstration sites to view recent installations of Rain Gardens and pervious concrete. The class was held **at the Shelton Civic Center on October 27, 2008**. Three course attendees were from Mason County Public Works and Planning Department. LID Manuals were distributed to each participant of the course.
- County Stormwater Utility Ordinance
  - Stormwater and Surface Water Utility, Ordinance No. 80-08, adopted June 17, 2008.

D.

- GIS Department working on a map to identify areas with poor water quality levels that have been identified by the Health Department.
- Meeting between County and Mason Conservation on March 9, 2009 was held to discuss different site location and priority of proposed site locations.
- Sites in Allyn were visited on June 8<sup>th</sup> to review their use potential as treatment sites. The sites that were a priority were ones north of Lakeland Drive that had drainage into North Bay in the area that was recently restricted for shellfish harvesting by the State Department of Health.
- REVISED Quality Assurance Project Plan (QAPP) electronically sent to Melanie Tyler and Deborah Cornett August 12, 2009 for approval; titled: "Mason County Stormwater Management Program Water Quality Monitoring Plan".

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

A.

- Developed changes to the Mason County Comprehensive Plan regarding Stormwater Management, March 2008.
- Participate as representatives of Mason County Public Works Department and Utilities and Waste Management Department on the Oakland Bay Clean Water Protection District meetings, July 2008-Present.
- Developed amendments to County's 6-year Capital Facility Plan to include capital funding plan (CFP) for stormwater capital projects, July 18, 2008.
- Presented Stormwater Program and 6-year CFP to Western Washington Growth Management Hearings Board to obtain GMA compliance, October 22, 2008.
- Coordinating activities of the Stormwater Utilities with the Belfair Wastewater Reclamation Projects including development of LID and other stormwater management techniques to control run-off from MBR plant and pump Station sites, December 2008-present.
- Letter with first set of proposed project plans sent to Ecology August 12, 2009. Enclosures included description of proposed projects and Allyn, Belfair, and Hoodspport UGA Maps. Proposed Project Sites:

#### Allyn UGA:

1. Intersection of SR 3, Wade Street and North Bay Road
2. Evans Street

#### Belfair UGA:

1. Union River Drainage west of QFC Shopping Center
2. Misc. Improvements to ditches and culverts

#### Hoodspport UGA:

1. North Schoolhouse Road
2. Finch Creek road
3. North Hill Road

- Existing sampling data for Belfair, Allyn and Hoodspport were compiled. A GIS layer of sites and data were created and maps made.
- Stormwater drainages in Belfair, Allyn and Hoodspport were field surveyed. Sites for stormwater sampling were selected based on land use and site criteria for potential stormwater treatment installations. The site criteria is in the QAPP.
- Stormwater sampling under the approved project QAPP was initiated. Sampling was done at 16 sites in the Hoodspport, Allyn and Belfair areas. The initial sampling was to establish baseline dry weather levels. The parameters tested are Nitrate+Nitrite Nitrogen, ortho-phosphorus, fecal coliform, total metals (Cd, Cu, Ni, Pb, Zn), total suspended solids, total hardness, temperature, conductivity, pH and DO. Results are not available yet. Two storm event samples will be collected at each site next quarter.