

City of Corvallis Total Daily Maximum Load Implementation Plan Matrix

2010 Annual Compliance Report

Stormwater Management Program

| BMP ID # | BMP Title | Outline and Measurable Goal(s) | Current Status | Timeline | Future Planned Activities | Pollutants Addressed | | |
|---|--|--|--|---|--|----------------------|---------|-------------|
| | | | | | | Bacteria | Mercury | Temperature |
| 1. Public Education and Outreach * See City of Corvallis Stormwater National Pollution Discharge and Elimination System Annual Compliance Report for more detailed information. | | | | | | | | |
| 1.1 | School Pollution Prevention Program | Develop a general watershed/pollution prevention educational learning program. Base on use of stream model and River Rangers booklets. Work with at least six classroom groups using materials. Add more types of classroom learning materials and activities. | A general watershed/pollution prevention educational learning program has continued and been updated. Stormwater pollution prevention information was presented to approximately 785 preschool through high school youth in conjunction with hands-on water quality and pollution prevention activities. Researched, designed, and piloted a 'macroinvertebrates as water quality indicators' curriculum for second grade. Project will be incorporated into 509J school district curriculum and made available to all district 2 nd grade teachers in subsequent years. | Continue each year of SWMP through 2012 | Update and continue. Continue to develop stormwater pollution prevention presentations and activities for a variety of grade levels and actively recruit opportunities to interact with students in a variety of grade levels. | X | x | x |
| 1.2 | Storm Drain Marking | Work with volunteers to mark at least 200 storm drains with the message "Dump No Waste—Drains to Stream" or similar. Continue in new areas. | Volunteers marked approximately 588 storm drains in residential areas. | Continue each year of SWMP through 2012 | Continue in new areas. Work with volunteers to mark at least 200 storm drains. Create maps to give to volunteers. Direct them to areas where marking is needed. Keep track of areas marked. | X | x | |
| 1.3 | Stormwater Pollution Prevention Door-Hangers | Create and distribute door-hangers with illicit discharge detection and elimination (IDDE) information. Distribute at least 400 door-hangers. Update and continue in new areas. | Volunteers distributed over 1,000 door hangers in residential neighborhoods. | Continue each year of SWMP through 2012 | Update and continue in new areas. Distribute at least 400 door hangers. Create maps to give to volunteers. Direct them to areas where marking is needed. Keep track of areas targeted. | X | x | |

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| | | | | | | | Bacteria | Mercury | Temperature |
| 1.4 | Illicit Discharge Detection and Elimination (IDDE)Hotline | Establish a hotline that citizens can call in to report suspected illicit discharges or connections; monitor and follow up on calls. Create poster to advertise that storm drains flow to streams and pollution should be kept out of them. Include IDDE hotline number. Distribute poster. | Created and distributed magnets with IDDE graphic, pollution hotline phone number and 'Only Rain Down the Drain: If you see Storm Drain Pollution, Report It!.' | Complete by June 30, 2010 | Continue to distribute IDDE Hotline magnets and brochures containing IDDE hotline information at outreach/education events and to students. Make hotline advertisements available in local phone directories and on transit buses. | X | X | | |
| | | | Added IDDE graphic and hotline number to City field van. Magnets were made available at Utility Billing, City Hall, Public Works, Parks and Recreation, Dev. Departments. Updated pollution hotline message and monitored calls. Published one 'The City' newsletter article that included the hotline number (see BMP ID #1.5 for more information about 'The City' newsletter) and published a webpage about the hotline as part of the Stormwater Program website. | | | | | | |
| 1.5 | Media Releases | Distribute news releases or articles with pollution prevention/stormwater information to local news media. Distribute at least six releases or articles. | Media releases include nine press releases, three radio announcements, two paid newspaper advertisements, nine 'The City' articles (a monthly publication from the City of Corvallis mailed to every address within City limits), and one video on public TV (EPA After the Storm video). | Continue each year of SWMP through 2012 | Update and continue. | X | X | X | |
| 1.6 | Residential Pollution Prevention Program | Develop extensive pollution prevention program tailored to homeowners addressing auto care and use, landscaping, pet waste disposal, etc. Include educational flyers and examples of alternative materials. Present to at least six groups or 20 individuals. | A general residential stormwater pollution prevention program has been developed. Educational materials were distributed at thirteen community events, three community presentations, and to approximately 42 individuals during residential visits. | Continue each year of SWMP through 2012 | Update and continue. | X | X | | |
| 1.7 | Municipal Employee Training Program | Initiate stormwater pollution prevention program for municipal operations. Identify key components of planning process including inventory, assessment, BMP selection and implementation. | Inventoried and assessed seven Parks program areas and two Recreation facilities. Worked with Public Works maintenance supervisors to re-assess 2008-2009 existing and recommended BMPs. | Continue each year of SWMP through 2012 | Continue initiating BMP inventory, assessment and training program with City Department staff as appropriate. | X | X | | |

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|----------|--|---|--|---|--|---------------------------|----------------------|---------|-------------|
| | | | | | | | Bacteria | Mercury | Temperature |
| 1.8 | Erosion Prevention and Sediment Control Education (EPSC) | Create and distribute educational materials on EPSC ordinance, permitting and BMPs for single and multiple lot development. Make available to all persons requesting building/site planning and inspection services through the Comm. Dev. Dept. | <p>A brochure summarizing erosion prevention and sediment control BMPs and permit requirements for ground disturbing landscaping activities was finalized and distributed.</p> <p>There were 39 documented conversations about erosion prevention with customers (owners, design professionals, contractors, etc.).</p> <p>There was one web article on dry weather erosion prevention made available on the City website.</p> <p>Development Services staffed two informational booths to provide information about all facets of services offered by Development Services, including building code, land use planning, and erosion prevention.</p> <p>City of Corvallis and City of Albany staff co-hosted four erosion prevention public outreach forums attended by 68 local designers, contractors, and citizens. The forums focused on each jurisdiction's erosion prevention permitting and inspection program, the Corvallis EPSC ordinance, industry-standard BMPs for erosion control, and provided an opportunity for participant questions and feedback.</p> | Continue each year of SWMP through 2012 | Implement program and update as needed. | x | x | | |
| 1.9 | Business Pollution Prevention Program | Develop pollution prevention program for business owners. Address multiple stormwater pollution prevention issues and BMPs. Examples include proper waste disposal, equipment maintenance, landscaping, IDDE ordinance, etc. Include educational handouts and certificates. Present to at least 20 business groups. | <p>Hired graduate student intern to research strategies using social marketing techniques to aid in the creation of a "Healthy Soils for Healthy Streams" program aimed at encouraging lawn care professionals to adopt practices that minimize nutrient runoff.</p> <p>Distributed pet waste disposal brochures to all Corvallis veterinary clinics and animal adoption agencies that needed refills.</p> <p>Designed, produced materials, and implemented 'Pick Up After Your Pet' pledge campaign. Partnered with four local pet stores to interact with customers about the importance of picking up after pets. 255 customer pledges to pick up after their pets were made in two months.</p> | Complete initial phase by June 30, 2011 | Continue to distribute stormwater pollution prevention educational fliers to businesses. | x | x | | |

2. Public Involvement and Participation

*** See City of Corvallis Stormwater National Pollution Discharge and Elimination System Annual Compliance Report for more detailed information.**

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|-----|--|---|--|---|--|---|---|---|
| 2.1 | Storm Drain Marking | Work with volunteers to stencil at least 200 storm drains. | See BMP ID #1.2 | Continue each year of SWMP through 2012 | See BMP ID # 1.2 | X | X | |
| 2.2 | Stormwater Pollution Prevention Door-Hangers | See BMP ID # 1.3 | See BMP ID # 1.3 | Continue each year of SWMP through 2012 | See BMP ID # 1.3 | X | X | |
| 2.3 | Stream Cleanup Projects | Develop stream cleanup program, purchase equipment. Work with volunteers to clean up at least two stream sections. | Hosted ten stream cleanup and enhancement events for volunteers. Purchased equipment as needed. Approximately 14 miles of streams were cleared by City staff with approximately 22.5 yards of debris removed. | On-going through June 30, 2012 | Continue in new areas. Work with volunteers to remove invasive plants such as ivy and blackberries from at least two sites or stream reaches. | X | X | X |
| 2.4 | Tree Planting | Develop tree planting program, purchase equipment. Create letter to inform residents about program to support native tree planting along streams. | Provided 143 native plants to nine streamside property owners through the Riparian Re-vegetation Grant Program (now re-named the Streamside Plant Grant program). Planted 3,000 lineal feet of riparian area on City-owned land with mixed hardwood and softwood species. Supplied homeowners adjacent to City-owned drainageways 47 native trees and shrubs for riparian enhancements. Other plantings include approximately 1,200 native wetland plants, 99 street trees, and 17 trees to replace those that had been removed or died. Hosted seven education booths/displays to provide citizens with information about landscape / tree care & planting. | Explore implementation by June 30, 2011 | Provide streamside homeowners with native plants and stream site assessment assistance through Streamside Plant Grant Program. Continue developing general plant lists, plant maintenance guidelines, and invasive weed removal recommendations for homeowners. | | | X |

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| 2.5 | Adopt-A-Stream Program | Work with local residents and school children to adopt a stream section. Provide training on stream function and stormwater pollution prevention. Help volunteers learn what they can do to monitor and help restore stream. May include the portion of Dixon Creek located behind Hoover Elementary School. | <p>Applied for and was awarded an E.P.A. Environmental Education grant to use a Community Based Social Marketing approach to research, design, and pilot a Corvallis Stream Stewards Program.</p> <p>Created materials for Streamside Plant Grant program and awarded nine grants for native riparian plants in exchange for commitment from homeowners to install plants and maintain stream stretch.</p> <p>Made 42 stream site visits to property owners to provide support regarding a variety of stream issues ranging from erosion control to invasive plants, and more.</p> <p>See BMP ID #2.4 for more information.</p> | Explore implementation by June 30, 2011 | <p>Hire student intern and survey consultant to use a Community Based Social Marketing approach to begin researching, designing, and implementing a Corvallis Stream Stewards Program</p> <p>Continue Streamside Plant Grant Program and stream site visits as appropriate.</p> | x | | x |
| 2.6 | Public Meetings and Exchange - Stormwater Education Booth | Host a stormwater/pollution prevention education booth at a community event. | Distributed stormwater pollution prevention information and/or answered questions/talked with people about stormwater pollution prevention at 13 community events. | On-going through June 30, 2012 | Update and continue. Host booth at least one community event. Potential events include DaVinci Days, Kids Day for Conservation or 4H Wildlife Stewards Summit. | x | x | x |
| 2.7 | Public Meetings and Exchange - Residential Pollution Prevention Program | See BMP ID # 1.6 | See BMP ID # 1.6 | Continue each year of SWMP through 2012 | See BMP ID # 1.6 | x | x | x |
| 2.8 | Public Meetings and Exchange - Business Pollution Prevention Program | See BMP ID # 1.9 | See BMP ID # 1.9 | Complete initial phase by June 30, 2011 | See BMP ID # 1.9 | x | x | x |

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| 2.9 | Public Meetings and Exchange - Expand City Internet Site to Include Stormwater and Pollution Prevention Info. | Expand City Internet site to include information on stormwater and pollution prevention; include volunteer opportunities. | Created new "City of Corvallis Stormwater Program" web content to include more stormwater pollution prevention resources and opportunity announcements. www.stormwater.program@ci.corvallis.or.us . | On-going through June 30, 2012 | Update web content to include more pollution prevention resources and opportunities. | X | X | X |
| 2.10 | Public Meetings and Exchange - IDDE Hotline | See BMP ID # 1.4 | See BMP ID # 1.4 | Complete by June 30, 2010 | See BMP ID # 1.4 | X | X | |

3. Illicit Discharge Detection and Elimination

* See City of Corvallis Stormwater National Pollution Discharge and Elimination System Annual Compliance Report for more detailed information.

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| 3.1 | Storm Sewer Map | Develop a storm sewer map that shows the location of all outfalls and the names and locations of all streams that receive discharges from those outfalls. | A storm sewer map has been completed and is hosted in the City's GIS department. | On-going | Update and continue as new development occurs. | X | X | |
| 3.2 | Illicit Discharge Detection and Elimination (IDDE) Ordinance | Continue enforcement of current code. Create and pass an updated IDDE ordinance to prohibit illicit discharges and connections to the municipal separate storm system. Move updated ordinance through public process, USC, and City Council. | Current Corvallis Municipal Code prohibits illicit discharges and connections. The IDDE Ordinance (officially named the Urban Stormwater Quality Management and Discharge Control Ordinance), has been reviewed by DEQ, City Attorney, and City staff, and has gone through an extensive public and stakeholder input process. | Ordinance is slated for review and adoption by City Council in July, 2010. | Continue enforcement of current code. Move updated ordinance through public process and to City Council for adoption (ordinance adoption anticipated in July, 2010). | X | X | X |
| 3.3 | Illicit Discharge Detection and Elimination (IDDE) Database and Tracking System | Develop final inspection/reporting forms and a database to track dry weather IDDE information. Associate database with storm sewer map. Develop spreadsheet record of spill events and response activities. | Database is being used. Records of spill events and response activities are on file. Inspection methods and forms have been developed and forms have been shared across departments. Outfalls are inspected by creek maintenance crew during normal maintenance season using updated forms. | Continue through June 30, 2012 | Update as needed and continue. Continue to enter spill event and response data into IDDE database. | X | X | X |
| 3.4 | Dry Weather Outfall Surveys | Conduct dry weather outfall surveys to identify illicit discharges or connections. Perform on 20 percent of outfalls. Update and continue in new areas. Enter outfall survey information into the GIS/IDDE data system. Follow up on any illicit connections found. | At least 90% of outfalls were surveyed by staff. No illicit discharges or connections were found during routine dry weather outfall surveys. | Continue through June 30, 2012 | Update and continue in new areas. Conduct dry weather outfall surveys. Enter any illicit discharges found through the survey into the IDDE database system. Follow up on any illicit discharges or connections found. | X | X | X |
| 3.5 | Storm Drain Marking | See BMP ID # 1.2 | See BMP ID # 1.2 | Continue through June 30, 2012 | See BMP ID # 1.2 | X | X | |
| 3.6 | Stormwater Pollution Prevention Door-Hangers | See BMP ID # 1.3 | See BMP ID # 1.3 | Continue through June 30, 2012 | See BMP ID # 1.3 | X | X | |
| 3.7 | Illicit Discharge Detection and Elimination (IDDE) Hotline | See BMP ID # 1.4 | See BMP ID # 1.4 | Complete by June 30, 2012 | See BMP ID # 1.4 | X | X | |

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| 3.8 | Residential Illicit Discharge Detection and Elimination (IDDE) Education Program | Create a general information sheet and presentation to inform residents about the IDDE program. Provide background info on water pollution, what an illegal discharge or connection is, examples of illegal discharges, and methods to properly dispose of wastes. Present to at least 20 individuals or groups. Combine IDDE Education Program with Residential Pollution Prevention Program. | The Residential IDDE Education Program has been combined with the Residential Pollution Prevention Program. See BMP ID # 1.6 | Present each year through June 30, 2012 | Update and continue in new areas. See BMP ID # 1.6 | X | X | |
| 3.9 | Business Illicit Discharge Detection and Elimination (IDDE) Education Program | Create presentation to inform businesses about the general handout and IDDE program. | The IDDE Business Pollution Program has been combined with the Business Pollution Prevention Program. See BMP ID #1.9 | Continue each year of SWMP through 2012 | Update and continue in new areas. Develop more specific types of information about new ordinance and provide to businesses. See BMP ID #1.9. | X | X | |
| 3.10 | Municipal Employee Stormwater Pollution Prevention Training Program | See BMP ID # 6.1 - 6.7 | See BMP ID # 6.1 - 6.7 | Schedule to be developed through June 30, 2012 | See BMP ID # 6.1 - 6.7 | X | X | |

4. Construction Site Runoff Control

* See City of Corvallis Stormwater National Pollution Discharge and Elimination System Annual Compliance Report for more detailed information.

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| 4.1 | Erosion Prevention and Sediment Control (EPSC) Ordinance | Develop EPSC ordinance as needed; obtain approval of City Council. | EPSC ordinance, adopted in 2004, is complete and is being enforced. Investigated 14 reported violations of the EPSC ordinance. | Ongoing | Continue enforcing EPSC ordinance and update as needed. | X | X | |
| 4.2 | Erosion Prevention and Sediment Control Manual | Develop EPSC manual. Distribute to construction community and appropriate municipal staff. | The EPSC manual is complete and no revisions were made during this reporting cycle. The manual continues to be available to the community and City staff. | Ongoing | Community Development Department will continue to refer, distribute, and update EPSC manual as needed. | X | X | |
| 4.3 | Erosion Prevention and Sediment Control Fact Sheets | Create and distribute fact sheets that describe construction site pollution prevention BMPs. Include in manual. | A brochure summarizing erosion prevention and sediment control Best Management Practices and permit requirements for ground disturbing landscaping activities was finalized and made available to the public on-line, at the Development Services Front Counter, included with plan review response letters as necessary, distributed during pre-development meetings, and distributed during on-site field discussions by inspection staff. All EPSC handouts are available on-line, at the Development Services Front Counter, included with plan review response letters as necessary, distributed during pre-development meetings, and distributed during on-site field discussions by inspection staff. | Ongoing | Work with Comm. Dev. Dept. staff to update and distribute materials as needed and continue program. | X | X | |
| 4.4 | Erosion Prevention and Sediment Control Education | Create and distribute educational materials on erosion prevention and sediment control (EPSC) ordinance, permitting and BMPs for single and multiple lot development. Make available to all persons requesting building/site planning and inspection services through the City's Comm. Dev. Department. | See BMP ID #1.8 | Ongoing | Update and continue. See BMP ID #1.8 | X | X | |
| 4.5 | Erosion Prevention and Sediment Control Permitting and Inspection Program | Identify inspection and permitting protocol for construction site pollution prevention. Apply to applicants and sites. Develop and initiate related inspection procedure. | An EPSC inspection program is in place through the City of Corvallis' Community Development Department. | Ongoing | Update as needed and continue. | X | X | |

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| 4.6 | Record Keeping | Develop and implement EPSC record keeping procedure for permitting, BMP inspections, and workshop training programs. | <p>All EPSC permits, inspections, and enforcement action is electronically documented in the City's permit tracking database by address and case number. Information entered into the database is available to the public at www.corvallispermits.com. Trainings, meetings, and one-on-one discussions about EPSC are documented on staff electronic calendars.</p> <p>EPSC illicit discharge violation data is imported into IDDE database annually.</p> | Ongoing | Update as needed and continue. Transfer any illicit discharge violation data into IDDE database. Record information on what workshop training programs have been sponsored by Comm. Dev. Dept. | x | x | |
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5. Post-Construction Runoff Control

*** See City of Corvallis Stormwater National Pollution Discharge and Elimination System Annual Compliance Report for more detailed information.**

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| 5.1 | Post-Construction Runoff Criteria and Standards | Initiate review and development of draft criteria and standards for post-construction stormwater management structural BMPs | The 2006 City of Corvallis Land Development Code includes requirements for the installation of post-construction stormwater management structural BMPs for stormwater detention and water quality. These requirements apply to new development proposals, expansions, and redevelopment meeting specific thresholds for additional or redeveloped impervious area. Design and maintenance criteria for these BMPs are specified in the City of Corvallis Design Criteria Manual, as amended by the September 2002 Stormwater Master Plan. The Design Criteria Manual adopts the King County, Washington Surface Water Design Manual for type, physical design, and maintenance criteria for detention and water quality facilities. Detention facilities must be designed to capture runoff so the runoff rates from the site after development do not exceed the predeveloped conditions, based on the 2-year through 10-year, 24-hour design storms. Water quality facilities must be designed to remove 70 percent of the total suspended solids (TSS) entering the facility during the water quality design storm (2/3 of the 2-year, 24-hour storm). Code sections and standards referenced above are available upon request. | Complete by June 30, 2012 | Continue to enforce stormwater management standards outlined in Corvallis 2006 Land Development Code. | x | x | |
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| 5.2 | Permitting and Inspection Program | Conduct an inventory of structural BMPs located within the City. | <p>A map of existing City-managed stormwater detention and water quality facilities has been created to aid in management of facilities.</p> <p>Private stormwater detention and water quality facilities are permitted through Development Services Division, and reviewed in accordance with the standards identified above. Facilities are inspected to ensure they are initially constructed and vegetated per the approved plans. Vegetation is inspected again 3-years after planting to confirm plant survival. Regular inspections to verify facilities are properly maintained to ensure their functionality are not currently conducted.</p> | Complete by June 30, 2012 | <p>Continue program.</p> <p>Update map of existing City-managed stormwater facilities as needed.</p> | x | x | |
| 5.3 | Post Construction Runoff Management Through Non-Structural BMPs | Coordinate with Community Development Department to review post-construction stormwater management through non-structural BMPs. | <p>The City of Corvallis Comprehensive Plan identifies numerous findings and policies designed to protect and enhance local natural resources. Areas are designated for zoned development and open space conservation within the Urban Growth Boundary and to meet statewide planning goals and guidelines.</p> <p>The City of Corvallis Land Development Code, effective December 31, 2006, implements the policies contained in the Comprehensive Plan, and includes a number of non-structural BMPs to reduce post-construction impacts on the landscape. These include:</p> <ol style="list-style-type: none"> 1. Limitations on development in floodway and floodplain areas. 2. Limitations on development in sloped hillside areas. 3. Limitations on development in areas containing significant vegetation. 4. Required setbacks from riparian corridors and wetlands. 5. Lot coverage standards to ensure a minimum amount of green area (as defined in Corvallis 2006 Land Development Code). | Complete by June 30, 2011 | Continue to implement non-structural BMPs as outlined in Corvallis Comprehensive Plan. | x | x | |

6. Pollution Prevention/Good Housekeeping for Municipal Operations

*** See City of Corvallis Stormwater National Pollution Discharge and Elimination System Annual Compliance Report for more detailed information.**

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| 6.1 | Municipal Operations Stormwater Pollution Prevention Training | Initiate stormwater pollution prevention program for municipal operations. Identify key components of planning process including inventory, assessment, BMP selection and implementation. | <p>Seven Parks (Urban Forestry, Facilities, Sports Fields, Volunteers, Landscaping, Natural Areas, and Trees) and two Recreation Program Areas (Aquatic Center and Senior Center) were inventoried and assessed for pollution prevention BMPs. A report was written (and is available upon request) highlighting existing and recommended stormwater BMPs in areas such as fertilizer and chemical applications, vehicle and equipment maintenance and storage, product purchase choices, storage, transportation, and disposal options, etc.</p> <p>Worked with Public Works maintenance supervisors to re-assess 2008-2009 existing and recommended BMPs.</p> <p>City staff attended 12 stormwater-related trainings, which cost a total of \$3,685.</p> | On-going through June 30, 2012 | Update and continue. Parks Department BMP training is scheduled for July 2010. Inventory and assessment process with Fire Department slated to take place this upcoming reporting cycle. | X | X | |
| 6.2 | Inventory Fixed Facilities and Field Program Activities | <p>Meet with managers and lead staff of all municipal departments to conduct preliminary interviews. Develop inventory collection forms for fixed facilities and field program activities.</p> <p>Inventory fixed facilities and field programs for pollution generating activities.</p> | <p>General fixed facility and field program inventory/inspection/assessment forms have been created to evaluate pollution discharge potential and both existing and recommended BMPs. In addition, more department-specific information is collected based on information from managers, lead staff and from tours of facilities. Process is underway with Public Works and Parks and Recreation departments.</p> <p>Continued inventory and assessment of fixed facilities and field programs with Parks and Recreation Department.</p> <p>See BMP ID #6.1.</p> | On-going through June 30, 2012 | <p>Work with Parks supervisors to re-assess 2009-2010 existing and recommended BMPs</p> <p>Initiate BMP inventory, assessment and training program with City Fire Department staff and other City departments.</p> | X | X | X |
| 6.3 | BMP Fact Sheets | Gather information; create fact sheets that describe potential source control and treatment control BMPs. | Inventory and assessment documentation for Parks and Recreation, as well as Public Works field work groups, highlight crew-specific source control and treatment control BMPs. | Complete by June 30, 2012 | Initiate BMP inventory, assessment, and training program with City Fire Department. | X | X | |

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| 6.4 & 6.5 | Inspection and Assessment of Fixed Facilities, Field Programs and BMPs | Develop training schedule. Create inspection/assessment forms for fixed facilities and field program BMPs. Use to evaluate pollutant discharge potential. Base on information from managers, lead staff and from touring facilities and programs. | See BMP ID #6.1. General inspection/assessment forms have been created for fixed facilities and field programs. | Initiate in 2011 | Initiate BMP inventory, assessment and training program with City Fire Department staff. | X | X | |
| 6.6 | Municipal Operation Stormwater Pollution Prevention Training and BMP Implementation | Train staff. Meet with municipal staff members in teams according to department and job duty. Identify BMPs already in place and additional BMPs needed. Continue to implement stormwater pollution prevention BMPs already in place. Implement additional BMPs as resources allow. Train municipal staff on how to identify and report illegal discharges of pollutants into the stormwater system when they are on the job and/or driving around the City. | Worked with Public Works maintenance supervisors to re-assess 2008-2009 existing and recommended BMPs Crews continue to implement BMPs already and place and have adopted new BMPs. Examples of ongoing BMPs include: 1. Ongoing street sweeping and leaf collection programs 2. Annual catch basin cleaning 3. Ongoing maintenance of storm water facilities 4. Preventative maintenance activities at wastewater lift stations. Examples of improved practices as a result of the inventory/assessment/training process include: 1. Reduced chemical use on facility landscapes. 2. Purchased of vacuum system to prevent concrete street saw cutting slurry from entering the storm system. 3. Coordination of curb pressure washing activities and sidewalk/streetscape maintenance with street cleaning activities. 5. Custodial services continue to use 90% certified 'green' cleaning products. | On-going through June 30, 2012 | Training with parks staff scheduled for July, 2010. Initiate BMP inventory, assessment and training program with City Fire Department staff. | X | X | X |
| 6.7 | Record Keeping | Develop and implement BMP record keeping procedure for both staff training and BMP inspections. | Record keeping procedure for BMP inspection and staff training has been initiated based on assessment and training of Public Works and Parks crews. | Develop and initiate by June 30, 2011 | Continue to implement record keeping procedures. | X | X | X |

Wastewater Program

| ID # | Title | Outline and Measurable Goal(s) | Current Status | Timeline | Future Planned Activities | Pollutants Addressed | | |
|------|------------------------------------|---|--|----------|--|----------------------|---------|-------------|
| | | | | | | Bacteria | Mercury | Temperature |
| 1 | Industrial Pretreatment Program | Continue to implement Industrial Pretreatment Program. Submit Annual Report to DEQ. | Program in compliance with all requirements. USEPA recognized the program as the best in the United States in its class in October, 2006. Annual program report submitted to DEQ in February, 2010. | On-going | Continue to administer program. | | X | X |
| 2 | Mercury Reduction Plan | Develop mercury reduction plan | <p>Plan implementation in process and has included:</p> <ul style="list-style-type: none"> Working with Corvallis dentists to prevent mercury from entering wastewater stream. Mercury collection programs in Corvallis schools (see Wastewater Program BMP ID #1.9 for more information). Mercury limitations for industrial pretreatment discharge permit program. City has continued to work in partnership with DEQ and Allied Waste to encourage citizens to bring household mercury and other hazardous wastes to their quarterly Household Hazardous Waste Collection Events. In November 2009, the City participated in a significant promotion effort for a collection event and worked with DEQ to supply Allied Waste with 150 replacement digital thermometers as an incentive for people to turn in their mercury thermometers. | On-going | Continue mercury reduction plan. | | X | |
| 3 | Effluent Disinfection | Continue to disinfect treated effluent, as per NPDES permit requirements. | Disinfection meets NPDES permit requirements. | On-going | Continue to disinfect effluent and meet NPDES permit requirements. | X | | |
| 4 | Infiltration and Inflow Prevention | Continue to implement I/I prevention and control program, as per NPDES permit requirements. Submit Annual Report. | Program in compliance with all requirements. Annual program report submitted to DEQ in February, 2010. | On-going | Continue to administer program. | X | X | |

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| 5 | NPDES Permit | Comply with all requirements of NPDES permit. | Program in compliance with all permit requirements. In 2009, the City received a platinum award from the National Association of Clean Water Agencies for five consecutive years of 100% NPDES permit compliance. | On-going | Continue to comply with all requirements of NPDES permit. | X | X | X |
| 6 | Thermal Load WLA | Develop strategies to comply with thermal load WLA from TMDL | Program not yet initiated – DEQ has not yet determined City’s thermal load WLA. City of Corvallis Willamette River TMDL Alternatives Evaluation Project is complete. Copy available upon request. Alternative not yet selected. The public input process has been initiated. | Schedule to be developed | Will develop compliance plans when DEQ completes waste load allocation process and include compliance requirements in City’s NPDES permit. | | | X |
| 7 | CSO/SSO Management | Continue to manage wastewater system to minimize SSOs and CSOs | Program in compliance with all permit requirements. | On-going | Continue to administer program. Corvallis won USEPA national second place award for its CSO remediation program in 2000. | X | X | |
| 8 | Dental Amalgam | Oversee dentist implementation of SB 704 requirements for dental amalgam management. | Program initiated. City initiated a statewide pilot program with DEQ and the Association of Clean Water Agencies and the Oregon Dental Association with area dentists for voluntary compliance. Nearly 100% participation achieved. Sent Corvallis dentists reminder letters in 2009 to remind them that state law will mandate compliance in 2010. | On-going | Monitor compliance. | | X | |
| 9 | Mercury in schools | Work with school district to develop strategies to eliminate mercury in schools | Program initiated and mercury has been removed from local schools. City initiated a statewide pilot program in cooperation with DEQ and the Association of Clean Water Agencies (ACWA) to remove mercury from schools. DEQ/ACWA report on the project has been published. | Complete. | Complete. Household mercury reduction efforts will continue. See Wastewater Program BMP ID # 1.2 for more information. | | X | |

Parks and Recreation

| ID # | Title | Outline and Measurable Goal(s) | Current Status | Timeline | Future Planned Activities | Pollutants Addressed | | |
|------|-------------------------------------|---|--|--|--|----------------------|---------|-------------|
| | | | | | | Bacteria | Mercury | Temperature |
| 1 | Park Properties and Natural Areas | Develop strategies to protect and enhance natural areas on City park property. | A guidance document entitled: <i>Corvallis Parks and Natural Areas Sustainable Operations Plan</i> has been implemented. This document establishes best management practices (BMPs) to protect the natural functions of these areas. | Plan implemented in March 2009. | Continue to develop and implement BMPs as resources allow. Develop BMP strategies based on specific habitat types and operational service levels. Continue progress on Herbert Farm and Natural Area Management Plan, which is currently in draft form. | x | | x |
| 2 | Erosion Prevention | Develop strategies to prevent erosion on City park property. | City Land Development Code requirements also apply to City owned facilities. For non-construction projects, BMPs are being implemented to minimize erosion potential from City park facilities and operations. Urban Forest Management Plan adopted in 2009. | In progress. | Continue to develop and implement BMPs as resources allow. Develop BMP strategies based on specific habitat types and operational service levels. | | x | |
| 3 | Pet Waste Management | Reduce impact on urban stream water quality from pet waste contamination occurring on City park property. | Program in place. Bag dispensers and waste disposal cans are at various locations on City park property and along trail systems and are continuously updated and monitored. An estimated 30 tons of dog waste is collected each year. Educational material is available to the public. | In progress. | Continue to evaluate additional areas to install pet waste collection facilities and making educational information available. | x | | |
| 4 | Pesticide and Herbicide Application | Minimize use of, and negative impacts from application of pesticides and herbicides on park property. | The City has established an Integrated Vegetation and Pest Management (IVPM) Control program that emphasizes natural means of pest and weed control to the extent possible. City has installed pesticide free/water wise/low fertilizer demonstrations in high-traffic park areas. | VPM plan updated in May 2010. In progress. | Continue to implement BMPs as resources allow. City is evaluating agricultural service agreements to better manage applications of fertilizers and chemicals on these properties and promote sustainable agriculture. | | x | |
| 5 | Fertilizer Application | Apply fertilizers, as resources allow, based on the specific needs of plants, particularly as identified by appropriate soil testing. | Fertilizer BMPs have been outlined in <i>Corvallis Parks and Natural Areas Sustainable Operations Plan</i> . City has installed pesticide free/water wise/low fertilizer landscaping demonstrations in four locations. | In progress. | Continue to implement BMPs as resources allow. Develop BMP management strategies based on specific habitat types and operational service levels. City is evaluating agricultural service agreements to better manage applications of fertilizers and chemicals on these properties and promote sustainable agricultural practices. | | x | |
| 6 | Riparian Buffer Preservation | Preserve wide, undisturbed natural riparian areas along streams to provide riparian habitat and maintain water quality. | City Land Development Code requirements apply to City owned facilities. In addition, as mentioned in BMP ID #1 above, BMPs have been established to protect these riparian areas. Specific projects, such as the Herbert Farm and Natural Area Management Draft Plan, are being developed. The Urban Forest Management Plan was adopted in 2009. | In progress. | Continue to implement BMPs as resources allow. Developing BMP strategies based on specific habitat types and operational service levels. | x | | x |
| 7 | Urban Streams and Drainageways | Establish a robust vegetation cover to ensure the proper functioning of urban streams and engineered drainage structures. | A native plant selection pallet is under construction for these areas, and will be electronically available to the public. | In progress. | Continue to implement the BMPs. | x | x | x |

Development Services/C.I.P Engineering/Development Review Engineering

| ID # | Title | Outline and Measurable Goal(s) | Current Status | Timeline | Future Planned Activities | Pollutants Addressed | | |
|------|----------------------------------|--|--|--|---|----------------------|---------|-------------|
| | | | | | | Bacteria | Mercury | Temperature |
| 1 | Riparian Vegetation Preservation | Implement Land Development Code requirements for the protection and enhancement of natural features through design consideration on City capital projects and through the review and approval of designs submitted by private developers | Program implemented. | On going | Continue to implement applicable codes and policies. | X | X | X |
| 2 | Impervious Surface | Develop strategies to limit impervious surfaces in new development, or develop mitigation measures. | <p>Program underway. City Land Development Code provisions require a minimum amount of green space (as defined in 2006 land Dev. Code) with development, and include limits on maximum allowable parking to minimize impervious surfaces.</p> <p>A “Green Street” Capital Improvement Project has begun. Location selection and community outreach has been initiated.</p> <p>The City provided funding for a community stormwater demonstration project at a local business.</p> <p>Convened community event to facilitate conversations about locally appropriate stormwater low impact development solutions for Corvallis.</p> <p>Initiate retrofit installation of pervious pavement on City parking lot.</p> | <p>On going.</p> <p>Continue “Green Street” Capital Improvement Project/</p> | <p>Continue to evaluate additional “green” techniques and methods for replacing traditional impervious surfaces with pervious surfaces that provide equivalent functionality.</p> <p>Continue to develop educational tools to facilitate installation of raingardens, green roofs, and permeable pavers on personal properties.</p> <p>Initiate process to create educational signage for pervious pavement site.</p> | X | X | X |
| 3 | Development in Flood Plains | Implement ordinances and/or strategies to limit development in flood plains. | Program initiated. City Land Development Code requirements limit develop in floodplains to minimize impacts to natural features. | Ongoing. | <p>Continue to enforce current code and policies.</p> <p>Approve 2009 FEMA floodplain maps and regulations through City Ordinance, and update the Corvallis Land Development Code to reflect these changes.</p> | X | X | X |

Watershed Programs (Mary's River and Willamette)

| ID # | Title | Outline and Measurable Goal(s) | Current Status | Timeline | Future Planned Activities | Pollutants Addressed | | |
|------|-------------------------------|--|---|--|---|----------------------|---------|-------------|
| | | | | | | Bacteria | Mercury | Temperature |
| 1 | Riparian Area Restoration | Explore and develop opportunities for restoration of riparian areas in watershed. | The City has completed several urban stream and Willamette River riparian area restoration projects. Examples include the Willamette River west bank adjacent to the City's Riverfront Park and urban stream projects on Oak, Dunawi and Sequoia Creeks. Funds are established for these projects in the City's Capital Improvement Program (CIP) plan. | Continue as outlined in the City's 5-year CIP plan; 2008 - 2012. | Continue program as outlined in the City CIP plan. | X | X | X |
| 2 | Riparian and Stream Functions | Explore and develop opportunities for improving riparian functions (stream structure, enhance hyporheic flow, cold water refugia). | Program is underway. The City received grant funding in excess of \$500,000 to do watershed enhancement projects in the City owned Rock Creek watershed, which is tributary of the Marys and Willamette Rivers. Resulting projects from the 2009-2010 fiscal year include treating approximately 80 acres of roadside invasive plants (False Brome), topping 120 trees to enhance forest structure/wildlife habitat and add down wood to the forest floor, conducted non-commercial forest habitat diversity thinning on 125 acres, and commercial thinning on 38 acres with the objective of enhancing forest structure. These projects were identified in the 2006 Corvallis Forest Stewardship Plan. | Ongoing. | The City will continue to implement the recommendations in its Watershed Stewardship Plan as funding becomes available. | | X | X |

Public Works

* See Stormwater section of this report for additional Public Works Department activities.

| ID # | Title | Outline and Measurable Goal(s) | Current Status | Timeline | Future Planned Activities | Pollutants Addressed | | |
|------|--|--|---|----------------------------------|---------------------------|----------------------|---------|-------------|
| | | | | | | Bacteria | Mercury | Temperature |
| 1 | Fluorescent Light Bulb | Develop program to collect and properly dispose of used fluorescent light bulbs from all City facilities. | Program in place. This reporting cycle, total recycled bulbs include 50 F-40 4 ft. lamps, 919 F-32 4 ft lamps, 12 F-96 8 ft. lamps. 55 HID lamps and 185 compact fluorescent lamps. | Ongoing | Continue program. | | X | |
| 2 | Mercury Switch Replacement (See Note below) | Develop program to replace mercury switches in City fleet. | Program not yet initiated. Most City vehicles are too new to have mercury switches located on the vehicles or equipment. | Develop program by June 30, 2012 | To be determined. | | X | |
| 3 | Street Sweeping | Implement street sweeping program to remove mercury deposition before discharge to stormwater collection system. | Program in place. Business district swept 2x/week and residential areas swept 2x/month. This is the best program in Oregon based on sweeping frequency and overall coverage. | On-going | Continue program. | | X | |
| 4 | Road and Bridge Operation | Develop practices for road construction, operation, and maintenance comparable to ODOT practices. | Program not yet initiated. Funding limitations | Schedule to be developed | To be determined. | | X | X |