

ENVIRONMENT COMMITTEE AGENDA

May 15, 2014 – North Conference Room

21630 11th Avenue South – Des Moines 98198

6:00P – 6:50P

1. Approve minutes of 4.17.2014 meeting
2. Project Updates
(Discussion Item – 25 min)
Staff will.....
3. NPDES Program Update
(Discussion Item – 25 min)
Staff will.....

*Meeting was cancelled - see attached e-mail
& updates sent to Committee Members.*

Peggy Volin

From: Loren Reinhold
Sent: Wednesday, July 02, 2014 9:45 AM
To: Peggy Volin
Subject: FW: Environment Committee Materials

From: Loren Reinhold
Sent: Wednesday, May 14, 2014 2:55 PM
To: Tony Piasecki
Cc: Dan Brewer; Tyler Beekley
Subject: Environment Committee Materials

Tony,

For review are the two white papers covering the topics (SWM Project Update and NPDES Program Update) of the canceled Environment Committee. Let me know if you have any questions or need additional information.



SWM Project
Update.docx



Environment
Committee NPDES.docx

Loren Reinhold, P.E.

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SWM Project Update (5/13/2014)

Des Moines Memorial Drive Pipeline Replacement and S. 216th Place Culvert Replacement

Both projects are currently out to bid (bid opening May 22). Project award is scheduled for June 12.

216th Street Pipeline Replacement

Project is now complete and project file is being closed out. Construction completed \$16,000 below contract amount.

Pond Safety Improvements

This project is a carry-over from last year's CIP for installing chain link fencing around four open stormwater detention ponds (Saltwater Highlands near 16th/250th, Redondo Bluffs-two ponds near 277th Place/13th Avenue, and Mediterranean Heights near 272nd/13th Avenue). Bids from fencing contractors are being collected with fencing anticipated to be installed in June. Additional ponds are being evaluated for fencing for next year's CIP.

Lower Massey Creek Channel Modifications

60% level plans and estimate has been received and project is proceeding into the permit phase. Construction cost estimate is approximately \$250,000 higher than previously estimated mainly due to the required depth of the sheet pile flood wall that runs the length of the project. 2015 CIP will be adjusted for the revised cost estimate although given the needed time that is required to obtain the permits, the fish window of 2016 seems more likely the schedule for construction.

Barnes Creek/Kent-Des Moines Road

A scope of work for the preliminary design has been received from Tetra Tech. However, the cost for the work is \$167,000, which is about \$75,000 higher than budgeted. A major portion of the cost is related to the geotechnical evaluation of the site. Staff is presently negotiating the terms of the work but may delay proceeding until 2015 when the CIP can be adjusted to include the added cost (as well as to determine how the project fits into the schedule given the higher construction cost of the Lower Massey Creek Channel Project).

24th Avenue Pipeline Replacement/Upgrade

Construction of the project (included with the 24th Avenue Sidewalk Safety Project) has been delayed until 2015. In-house design is scheduled to be completed by the end of the year, following construction of the 216th Place/DMMD Pipe projects (construction administration being done in-house).



City of Des Moines - NPDES Program Overview

Introduction

The Washington State Department of Ecology (DOE) has issued an updated Western Washington Phase II Municipal Stormwater Permit to the City of Des Moines. This new permit went into effect on August 1st, 2013 and is in effect for 5 years. The permit identifies five major components in which compliance must be met:

- public education/outreach
- public involvement/participation
- Illicit Discharge Detection/Elimination
- controlling runoff at construction sites
- pollution prevention for operations and maintenance for municipal operations.

The updated permit has presented additional requirements in each of these areas. The following provides a general description of how the City will be meeting these new requirements.

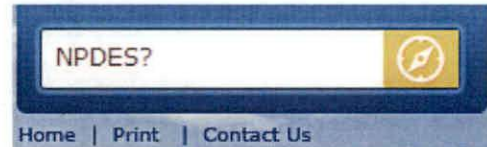
Storm Drain Marker Volunteer Program

This year the City reestablished its former stormdrain marking program, where citizens have the opportunity to volunteer marking stormdrains throughout the City. This program will help raise awareness about the impact of pollution in the waterways of Des Moines and act as a measure to help stop illegal dumping down our drains which ultimately lead to Puget Sound. Volunteers are found by advertising through the City Currents publication, the City website, and at the upcoming farmers market. This program is now in full swing after its spring launch, as 7 different groups have volunteered to mark over 400 storm drains. The summer is looking promising for volunteers as the weather will be in our favor and students will have more free time.



Website Updates

Also this year the City will be working to enhance the NPDES portion of its website. This will create a simpler more intuitive way for the public to find access to information and ways to provide more of it. Currently this section of the website is difficult to find and does not provide enough resources or adequate information. The improved website will include an introduction, definition, and summary section and have multiple links to resources such as Puget Sound Starts Here, Department of Ecology, and King County Stormwater Pollution Prevention Manual to name a few. Also the website will have a list of Best Management Practices (BMPs) that are aimed towards residents and businesses as well as information on current programs and volunteer opportunities sponsored by the City.

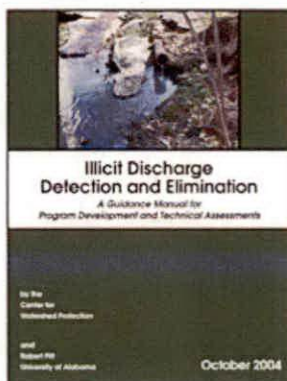


Business Outreach - (ECOSS/King County LSCP)

The City has recently partnered with both ECOSS and King County Stormwater Services Section. They both provide free outreach programs focused on pollution prevention technical assistance, providing free spill kits, training, and education on stormwater BMPs to businesses in our jurisdiction. By providing this assistance to “high pollution risk” businesses the City will help create general awareness and encourage behavior change. These outreach site visits will take place during the summer of 2014 and anywhere between 50 to 100 businesses will be reached. The City is also currently developing an in-house program that will expand on the programs above and focus on the same principals. This will be either an annual or bi-annual program.



Illicit Discharge and Connection Field Screening



The new permit requires Illicit Discharge Detection and Elimination (IDDE) field screening to be completed “for at least 40% of the stormwater system no later than December 31, 2017, and on average 12% each year thereafter.” The City is currently developing a program to meet these field screening requirements. The City will be using an approach developed by the City of Sea Tac. They conduct their field screening by assigning a specific downstream storm catchment as a monitoring node to represent the conditions for the next 20 upstream stormwater facilities. The field screening will be completed during the dry weather months and testing will be performed in the field for identification of any pollutants. Progress will be recorded and tracked through the Cityworks program.

Cityworks Tracking

The City acquired the Cityworks software (a maintenance management system) in February of 2012. This program has been used to create, schedule, and track work orders and service requests in the Public Works Department. Currently work is being done to expand the use of this program and fulfill many of the tracking requirements required by the NPDES permit. In the next year we the plan is to have all catch basin, public/private stormwater facility, and IDDE field screening inspections tracked. Some of this tracking will take place in the field with the use of portable devices connected online. Cityworks also allows the ability to generate summary reports of these inspections that will be submitted in the yearly permit report at the end of each year.



Training (Field Staff)



The permit also calls for an ongoing training program for all municipal field staff, which as part of their normal job responsibilities, might come into contact or observe and illicit discharge, on the identification of an illicit discharge and on the proper procedures for reporting and responding. Compliance will also be met by providing follow-up trainings on the standards for inspecting and maintaining public and private stormwater facilities; this is a crucial measure as these facilities change and grow in complexity over time. These new training programs are under development and the majority of these trainings will be done internally with the help of Powerpoint or video presentations.

