MEMORANDUM

To: The Honorable Members of the Whatcom County Council
   The Honorable Jack Louws, Whatcom County Executive

Through: Jon Hutchings, Director

From: Rob Ney, Division Manager
       Cathy Craver, Senior Planner

Date: May 17, 2016

Re: National Pollutant Discharge Elimination System (NPDES) Program 2017-2018 Level of Service (LOS)

On March 8, 2016, NPDES Program staff presented to the Natural Resources Committee the 2016 Stormwater Management Program (SWMP) for the NPDES areas of Whatcom County. The 2016 SWMP outlines Permit tasks accomplished during the 2015 calendar year, as well as the anticipated work program for the 2016 calendar year. As requested from that meeting, staff has developed a presentation outlining the following:

- A summary of the level of service increase for the NPDES Program beginning from the implementation of the 2013-2018 Permit.
- The work accomplished with the newly allocated resources.
- The next phase in level of service increase to accommodate the 2017-2018 anticipated work program to meet Permit Requirements.

Questions can be directed to Cathy Craver, x6299.

Encl.
National Pollutant Discharge Elimination System (NPDES) Phase II Permit & Program

Whatcom County Public Works
Special Programs Division/NPDES
Surface Water Work Session
May 24, 2016

Objectives:

- Summarize budget and resource trends since implementation of the NPDES Phase II Permit.

- Describe 2015-2016 NPDES work load and level of service.

- Outline anticipated level of service increase for 2017-2018 to achieve permit requirements.
NPDES Boundary Map

- Approximate number of MS4 facilities:
  - 2,800 catch basins
  - 110 miles of ditches
  - 4,000 culverts
  - 11 pre-treatment and flow control vaults
  - 14 stormwater filter vaults
  - 9 bioinfiltration and treatment swales

- Area covers approximately 15,000 acres

NPDES Budget History

<table>
<thead>
<tr>
<th>Year</th>
<th>Approximate Annual Budget</th>
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<tbody>
<tr>
<td>2011</td>
<td>$167,000</td>
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<tr>
<td>2012</td>
<td>$164,000</td>
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<tr>
<td>2013</td>
<td>$195,000</td>
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<tr>
<td>2014</td>
<td>$300,000*</td>
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<tr>
<td>2015</td>
<td>$1.2 M**</td>
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*The increase in budget in 2014 was in response to increase programmatic development to comply with new requirements of the 2013-2018 Permit effective August 1, 2013.

**The increase in budget in 2015 initiated the ramping up in level of service needed to accomplish operations and maintenance requirements primarily through additional staffing.
2015-2016 Work Load

- Began development of electronic database for inspection and maintenance tracking.
- Hired Staff:
  - NPDES Crew Leader
  - NPDES Engineering Tech 1 (Stormwater Inspector)
  - NPDES Senior Road Maintenance Worker
  - 3 temporary extra help for M&O Crew
- Contracted with the City of Bellingham to vecto catch basins in Bellingham UGA.
- Initiated comprehensive stormwater conveyance system inventory and assessment.

Results of Level of Service Increase

- Completed Catch Basin Work:
  - 2,108 inspections, 773 vectored, 192 repaired, and scheduled 14 replacements
- Conducted 2.5 miles of ditch maintenance and repairs.
- Identified maintenance needs for approximately 75% of NPDES catch basins.
- Identified “small works” projects. (i.e. catch basin, outfall, or culvert replacement or upsizing)
- Identified larger capital projects with the inspection and contract administration help.
2017-2018 Anticipated Work Program

- Complete all outstanding maintenance activities for catch basins identified through inspection round.
- Begin next round of inspections of public facilities.
- Continue ditch and conveyance repair and enhancement projects.
- Begin outfall inspection, inventory, and maintenance work.

- Provide support on initiated small works project for:
  - Design
  - Construction
  - Inspection
  - Technical Assistance
- Provide technical and administrative support for capital projects.

2017 NPDES Program Specifics

- 2017 NPDES Program expansion will focus on supporting:
  - Public stormwater system inspections
  - Stormwater infrastructure mapping
  - Small works projects:
    - Design
    - Construction inspection
    - Technical assistance
  - Capital project support
    - Construction inspection
    - Contract administration
- NPDES Permit Requirements demand level of service to increase.
Questions?

Bioinfiltration swale repair and - San Juan Blvd Swale and Detention Facility