FROM: Joe Stowell, City Engineer

INITIALED AS APPROVED FOR SUBMITTAL TO THE COUNCIL BY:

- Bob Severns, Mayor
- Doug Merriman, City Administrator
- Patricia Soule, Finance Director
- Nikki Esparza, City Attorney, as to form

RECOMMENDED ACTION
Review report update attached on the Clean Water Facility Project.

BACKGROUND / SUMMARY INFORMATION
Regular Meeting Clean Water Facility Report Update per Council request.

LEGAL AUTHORITY

FISCAL IMPACT

PREVIOUS COUNCIL / BOARD / CITIZEN INPUT

ATTACHMENTS
1. 8/03/2016 Report

PURPOSE

CITY COUNCIL WORKSHOP

DISCUSSION
CITY COUNCIL PROJECT UPDATE – August 3, 2016

The following is a snapshot of project activities and milestones, as well as anticipated upcoming activities and risks being monitored for the Oak Harbor Clean Water Facility Project. These updates are provided to City Council on a bi-weekly basis.

RECENT ACTIVITIES AND MILESTONES (PREVIOUS TWO WEEKS)
- Site Preparation Package B (Deep Excavation)
  - Completed excavation activities
- Site Preparation Package C (Micropiles)
  - Completed micropile installation and testing
- Deep Foundation Concrete
  - Poured first foundation concrete on June 22
  - Placed foundation grade material called a capillary break
  - Continued concrete placement for facility sumps
  - Open bids on the outfall pipe connector.
- Design
  - The Process Building 100% documents have been completed.
  - Carollo continues work on the non-process facilities
- SRF Funding Increase
  - DOE increased the 2017 CWSRF construction loan to $44,766,854 from $42,632,742

ANTICIPATED/UPCOMING ACTIVITIES AND MILESTONES (NEXT SIX WEEKS)
- Continue non-process facility design with 90% drawings due in September
- Site Preparation Package B and C
  - These GMP’s are essentially completed
- Windjammer Park Integration Plan
  - Begin implementation activities
- Deep Foundation Concrete
  - Continue concrete installation
- Process Structures
  - Begin bidding/procurement process

CLEAN WATER FACILITY DESIGN STATUS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Progress %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Design – Process Structures</td>
<td>Carollo Engineers is preparing the 100% design drawings for the process structures associated with the treatment plant.</td>
<td>100%</td>
</tr>
<tr>
<td>Facility Design – Biosolids Building</td>
<td>Design of the Biosolids building is at approximately 90%.</td>
<td>90%</td>
</tr>
<tr>
<td>Facility Design – Admin/Maintenance</td>
<td>Design of the Admin, Maintenance facilities are at approximately 60%.</td>
<td>60%</td>
</tr>
</tbody>
</table>
## CONSTRUCTION PACKAGE STATUS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Progress %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Preparation Package B</td>
<td>The design for the deep excavation package is complete. Construction has begun.</td>
<td>Completed</td>
</tr>
<tr>
<td>Site Preparation Package C</td>
<td>Preliminary work has begun on Site Preparation Package C. Work will include micro-piles in the bottom of the deep excavation and installation of a tower crane.</td>
<td>Completed</td>
</tr>
<tr>
<td>Concrete Package</td>
<td>Design of the concrete structures for the Membrane Bioreactors and Aeration Basins has been completed. GMP #7 has been approved by Council.</td>
<td>Completed</td>
</tr>
</tbody>
</table>

## PERMIT ACQUISITIONS STATUS

<table>
<thead>
<tr>
<th>Pending Permits</th>
<th>Description</th>
</tr>
</thead>
</table>
| • Building permits | • The Deep Foundation GMP permit has been issued  
• A building permit application for the process facilities is under review |

## CONSTRUCTION STATUS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Estimated Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMP #2 (Outfall Construction)</td>
<td>The subcontractor has completed their work. We are currently finalizing the paperwork for this phase of work.</td>
<td>Final Closeout</td>
</tr>
<tr>
<td>GMP #3 (Site Preparation A)</td>
<td>The subcontractor has completed their work and the contract is being closed out.</td>
<td>Completed</td>
</tr>
<tr>
<td>GMP #4 (Site Preparation B)</td>
<td>Sheet piles and tie-backs have been installed. Deep excavation has been completed. A few miscellaneous tasks remain.</td>
<td>July 2016</td>
</tr>
<tr>
<td>GMP #6 (Site Preparation C)</td>
<td>Micropile installation mostly completed. Miscellaneous closeout tasks underway.</td>
<td>July 2016</td>
</tr>
<tr>
<td>GMP #7 (Deep Foundation Concrete)</td>
<td>Started installation of rebar and placement of concrete.</td>
<td>May 2017</td>
</tr>
</tbody>
</table>

## COST AND FUNDING STATUS

<table>
<thead>
<tr>
<th>Major Cost Item</th>
<th>Cost Estimate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMP #1 (MBR/UV)</td>
<td>$2,775,455.58 (includes sales tax)</td>
<td>Awarded by City Council on 12/2/2014 - Includes Membrane Bioreactor and Ultra Violet Disinfection equipment procurement and design support. Does not include installation costs.</td>
</tr>
<tr>
<td>GMP #2 (Outfall)</td>
<td>$2,164,488 (includes sales tax)</td>
<td>Awarded by City Council on 4/21/15 - Construction of a new outfall from approximately the waterfront trail out into Oak Harbor Bay.</td>
</tr>
<tr>
<td>GMP #3 (Site Prep A)</td>
<td>$908,872 (includes sales tax)</td>
<td>Approved by City Council 6/16/15 - Preliminary site excavation and archaeological investigation. Preliminary results indicate this work will come in under budget or be delayed until Site Preparation Package B.</td>
</tr>
</tbody>
</table>
**GMP #4 (Site Prep B)**  
$5,109,549 (includes sales tax)  
Approved by City Council on 10/20/15 - Site Preparation Package B will include utility relocates, minor demolition at the existing RBC Plant, stone column installation, sheet pile installation and deep excavation.

**GMP #5 (Biosolids Dryer)**  
$2,028,222 (includes sales tax)  
Approved by City Council on 10/20/15 - Resolution and GMP #5 regarding a biosolids dryer were approved.

**GMP #6 (Site Prep C)**  
$4,311,589 (includes sales tax)  
Site Preparation Package C will include installation of micro-piles, preparation for a tower crane and extension of the outfall to the site.

**GMP #7 (Deep Foundation)**  
$10,169,937 (includes sales tax)  
The Deep Foundation package includes the concrete construction to bring the Membrane building to grade and other construction activities.

**Overall Project**  
TBD  
90% design documents for the process facilities have been received by the City. Hoffman initiated cost estimates. 90% design for the non-process buildings is expected in late August.

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<table>
<thead>
<tr>
<th>Funding: Pending</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017 CWSRF - WWTP Construction</td>
<td>On June 21, 2016 we received a formal offer from the Department of Ecology for a $44,766,854 State Revolving Fund Loan at a rate of 1.6% for a term of 20 years. We will be working with DOE to amend our existing funding agreement over the coming months.</td>
</tr>
<tr>
<td>Rates</td>
<td>Ordinance 1760 was passed by City Council on March 15, 2016. Staff will continue to evaluate rates as the project progresses.</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Funding: In hand</th>
<th>Description</th>
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<tbody>
<tr>
<td>2016 CWSRF – WWTP Construction</td>
<td>The City has been allocated $15,631,311 at a reduced interest rate of 1.9% for 20 years and an additional $463,154 forgivable principal for hardship and green project reserve. An additional $4,586,846 in Centennial Grant has also been obtained.</td>
</tr>
<tr>
<td>2015 CWSRF – Outfall Design and Construction</td>
<td>The City has received $3,200,000 in low interest loans from DOE for design and construction of the new outfall for the wastewater treatment plant. The loan is for 20 years at 2.7% interest.</td>
</tr>
<tr>
<td>2015 CWSRF – WWTP Design</td>
<td>The City has received $8,260,000 in low interest loans for design of the new wastewater treatment plant. The loan is for 20 years at 2.7% interest.</td>
</tr>
<tr>
<td>2016 CWSRF – WWTP Construction</td>
<td>The City has been allocated $15,631,311 at a reduced interest rate of 1.9% for 20 years and an additional $463,154 forgivable principal for hardship and green project reserve. An additional $4,586,846 in Centennial Grant was also offered.</td>
</tr>
<tr>
<td>Department of Commerce Grant</td>
<td>The City has received a $2,500,000 grant from the Governors Capital Improvement Program. The city received the grant reimbursement.</td>
</tr>
<tr>
<td>Bond Anticipation Note</td>
<td>This note has been repaid with proceeds from the bond sale.</td>
</tr>
<tr>
<td>Bonds</td>
<td>The City released bonds and secured a rate of 3.43%. The city closed on the bond sale.</td>
</tr>
<tr>
<td>Reserves</td>
<td>The sewer fund has been accumulating reserves that have been earmarked for this project.</td>
</tr>
</tbody>
</table>
COMMUNICATIONS AND OUTREACH STATUS

<table>
<thead>
<tr>
<th>Upcoming activities or In-Progress activities</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project communications plan</td>
<td>The project team continues to implement the project communications plan through weekly e-mail updates, drop-in times at the construction site, project signage and regular mailers at major milestones. A project mailer will go out in August.</td>
</tr>
<tr>
<td>Windjammer Park Integration Plan</td>
<td>Staff is working to implement the plan approved by City Council on June 7th.</td>
</tr>
</tbody>
</table>

PROJECT CONTACT INFORMATION

Web
www.oakharborcleanwater.org

Email
treatmentplant@oakharbor.org

General phone (24-hour)
360-914-7000

Project team contact information
Joe Stowell, P.E., City Engineer
360-720-8796
jstowell@oakharbor.org

Brett Arvidson P.E., Project Engineer
360-914-7987
barvidson@oakharbor.org
We are here

Outfall complete

Final cost update

We are here

Start-up/Testing

Facility online

Facility online

Milestone

Council decision

Restoration

Testing

GMP development

Design

Construction

GMP #1: MBR and UV Procurement

GMP #2: Outfall

GMP #3: Site Prep A / Stone columns

GMP #4: Site Prep B Sheet piles

GMP #5: Biosolids Dryer Procurement

GMP #6: Site Prep C / Micropiles

GMP #7: Deep Foundations

GMP #8: Process Structures

GMP #9: Non-Process Structures

Full Plant Commissioning

Start-up/Training/Acceptance

GMP #10: Site Mitigation and Restoration