Design Advisory Group Meeting #1

Thursday, January 29, 2015
6:00 p.m. – 8:00 p.m.
Meeting Purpose

• Develop a Design Advisory Group charter and meeting ground rules
• Present overview of the Georgetown Wet Weather Treatment Station project
• Outline the facility requirements
Brief Project Overview

- **Problem:** Combined sewer overflow (CSO) into the Duwamish River
- **Solution:** Facility to clean water before returning it to Duwamish River
Right Technology, Right Location

- Store
- Remove from system
- Treat
Why a Design Advisory Group?

- Participate in the aesthetic design process
- Represent the diverse experiences, areas of knowledge and interests of Georgetown
- Help King County ensure the station fits into the Georgetown community
What Will the Design Advisory Group Do?

• Review project information to understand what is needed at the station
• Co-develop design guidelines
• Provide input about design options to inform decision-making regarding facility aesthetics (i.e., landscaping, fencing, etc.)
• Report advisory group progress back to constituents
# Design Advisory Group Schedule

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Topic</th>
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| Meeting #1| • Project overview  
• Facility requirements  
• Opportunities for influence  
• Charter and ground rules |
| Meeting #2| • Finalize charter  
• Design guidelines |
| Meeting #3| • Review concepts that reflect design guidelines |
| Meeting #4| • Review revised design concepts based on DAG and community input |
| Meeting #5| • Discuss 30% design |
| Meeting #6| • Additional design elements for 60% design (TBD) |
Draft Charter

• Review draft
• Provide input
• Propose adjustments
Presentation Overview

• Project Background
• Current Project Status
• 2015/2016 Look Ahead
Purpose of Project

• “Control of Brandon and South Michigan Street CSO Outfalls in accordance with WAC 173-245-020(22)”

• WAC defines control as “no more than one event per year over a twenty year average” or treatment that is at least equal to primary treatment standards

• Achieve all consent decree requirements
Consent Decree Requirements

Project defined as:
- CSO Conveyance and Treatment – 66 MGD peak
- High rate clarification treatment

Compliance Schedule:
- Submission of Facilities Plan by December 31, 2015
- Completion of Bidding by December 31, 2017
- Construction Completion by December 31, 2022
- Achievement of Performance Standards by December 31, 2024 or two full wet seasons of operation
Characteristics of Treated Discharge

- **Long term averages**
  - ~20 treated events/year
  - 1/year discharge from existing CSOs
  - ~65-70 MG/average year (95% of total)

- **Intermittent and short duration events**
  - 50% less than 4 hours
  - 91% less than 12 hours
Project Elements (what is being proposed)

- Influent conveyance
- Flow equalization
- Influent pump station
- Screening
- High rate clarification system
  - Ballasted Sedimentation
- Ultra-violet disinfection
- Ancillary facilities including, odor control, redundant electrical supplies, chemical storage
- Effluent conveyance
- Outfall structure
Schedule

<table>
<thead>
<tr>
<th>Consent Decree Milestone</th>
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<tbody>
<tr>
<td>Facility Plan</td>
<td>12/31/2015</td>
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<tr>
<td>Completion of Bidding</td>
<td>12/31/2017</td>
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<tr>
<td>Construction Completion</td>
<td>12/31/2022</td>
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<tr>
<td>Achievement of Performance Std.</td>
<td>12/31/2024</td>
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Work Accomplished to Date

- Completed treatment technology selection
- Geotechnical work underway
- ESA Phase I complete
- Numerous stakeholder briefings/events (community, Tribes, Ecology, internal staff)
- Site selection process complete
Project Status – Current Activities

- Analysis of flow and load data; water quality sampling and analysis
- Ecology coordination
- Develop conceptual site layouts, hydraulic profile, operational strategies for preferred system alternative
- Seattle Public Utilities – Michigan Trunk pipe tap
- Equipment procurement strategy – Actiflo and UV
Recommended Site

- Environmental review to be completed on this recommendation
- Shortest conveyance
- Undeveloped property
- On-site staging possible
- For sale/lease
- Allows for consolidated facilities
- Community support
2015-2016 Look Ahead

• **Challenges**
  • Outfall siting – WSDOT and Ecology approval
  • Property acquisition
  • Determining site cleanup requirements
  • Completing design sufficiently to submit the Facility Plan in July 2015
  • Coordination with P13 site developer
Next Steps

• Homework
• Meeting #2
Public Comment
Upcoming Meetings

All meetings will be held at South Seattle College Georgetown Campus, 6737 Corson Ave South, Building C, Room C110/111

DAG Meeting #2
Thursday, Feb. 12, 2015
6:00 p.m. – 8:00 p.m.

DAG Meeting #3
Thursday, March 12, 2015 TBD
6:00 p.m. – 8:00 p.m.

DAG Meeting #4
Thursday, April 9, 2015 TBD
6:00 p.m. – 8:00 p.m.
Thank You!

For questions or comments, please contact:
Kristine Cramer
206-477-5415
kristine.cramer@kingcounty.gov
www.kingcounty.gov/georgetownWWTS