



South Magnolia Combined Sewer Overflow (CSO) Control Project Summary of October 2011 Meetings and Briefings

Overview

King County's South Magnolia CSO Control Project team conducted public outreach in mid-October 2011. Meetings and briefings were intended as an opportunity to introduce the design team to the community, discuss project elements, and hear feedback and input from community members.

The following meetings were conducted:

- Friday, October 14- Team members met with a small group of residents at their request to discuss the on-going geotechnical investigations and work to identify a conveyance pipeline alignment in their neighborhood.
- Tuesday, October 18 - A project presentation was provided to the Magnolia Community Club Board at the Board's request. The project team provided information about the preferred underground storage tank location and the gravity sewer pipeline alignment.
- Wednesday, October 19- The project team provided a brief presentation at the Port of Seattle's Terminal 69 on the recommended underground storage tank location and participated in discussion with the Terminal 91 Neighbors Advisory Committee
- Thursday, October 20-King County hosted a community meeting at the Catherine Blaine Elementary School Cafeteria to present an update on all project elements.

Meeting Purpose

These meetings were intended to:

- Introduce the new project design team to the community
- Update the community on current status of the South Magnolia CSO Control Project
- Provide information about King County's preferred storage tank location
- Discuss design and construction of project elements
- Address questions and concerns, and receive input from the community

Presentation Overview

A PowerPoint presentation from the October 20 meeting, encompassing all elements presented at these meetings, can be found at

www.kingcounty.gov/environment/wtd/Construction/Seattle/SMagnoliaCSOStorage/MeetingCalendar

or provided upon request. The presentation includes:

- An overview of the CSO problem in Magnolia



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- An update on the project's timeline and public outreach activities to date
- Information on the project elements:
 - Underground storage tank and recommended location at the Port of Seattle's Terminal 91 West Yard site
 - Gravity sewer pipeline, including information on ongoing geotechnical investigations and potential construction methods
 - A diversion structure on 32nd Avenue West
- Next steps including:
 - Project activities
 - Public participation
- Contact information

Summary of Questions and Input

Questions, feedback, and discussion from meeting attendees are summarized below.

Underground Storage Tank

Has a final decision on the storage tank location been made?

King County has concluded an evaluation and decision process working with the Port of Seattle and City of Seattle since 2010. The County has identified the Port of Seattle's Terminal 91 West Yard as the preferred site for the underground storage tank and has initiated the process to acquire easements from the Port of Seattle. This process is underway at this time. The project team will need to have the location finalized by March 2012 in order to meet compliance deadlines for facility design established by the Washington Department of Ecology.

What are the Port of Seattle's plans for the West Yard site?

Mark Griffin from the Port of Seattle described the status of land use planning for the Port's Terminal 91 at the October 19 Neighbor's Advisory Group briefing and October 20 community meeting. He noted there is ongoing assessment of the feasibility of a land swap between the Port and the City Parks Department to exchange the Smith Cove Park parcel for the Port's West Yard. Mark said that the Port of Seattle has identified alternate locations for the current uses of the West Yard.

The Port of Seattle and Seattle Parks Department have met with the community regarding the potential land swap and continue to provide updates; information can be found at <http://www.portseattle.org/community/resources/>.



How will the underground storage tank fit into a future park if one is established on the West Yard? Who makes the decision about facility design?

During recent meetings, the Magnolia Community Club Board and Councilmember Larry Phillips requested that the project team view the project on a multi-generational basis, and develop a design that anticipates a range of future uses in an already highly urbanized region with limited accessible shoreline space available.

It was explained that at this time the Port of Seattle and City of Seattle are considering the feasibility of a land swap, and are performing ongoing work to complete this assessment. Others in the community have expressed to agencies and elected officials a longer term vision of a park corridor throughout the area.

The community members were informed that King County's CSO Control project is on an established timeline to meet regulatory compliance, while the proposed land swap or consideration of a park corridor does not have an associated deadline. King County will work with the Port of Seattle and Seattle Parks during facility design to include consideration of potential future uses along with building codes and regulations, technical requirements, environmental permitting, safety and accessibility for operations and maintenance crews, operational performance, and budget. Surface restoration following construction will be performed in accordance with the easement established with the Port of Seattle.

A member of the Magnolia Community Club Board attended the October 20th community meeting at Catherine Blaine Elementary School, and commented to all attendees that the MCC intends to host a future community meeting focused on future uses of the area.

Will King County pay for the storage tank site?

It was explained that King County will compensate the property owner (currently the Port of Seattle) for temporary and permanent easements needed for the underground storage tank. The gravity sewer line will cross City of Seattle property under Smith Cove Park athletic fields; for this portion, King County will acquire easements and compensate the City.

Has the Port of Seattle considered giving the West Yard to the community for park development?

At the October 20 community meeting, Mark Griffin responded that the Port's mission is focused on economic development and land use decisions are consistent with that mission. He



noted that agencies and elected officials are aware of the community's interest in a park corridor throughout the Smith Cove area. At the October 18 Magnolia Community Club Board meeting, Councilmember Larry Phillips indicated that he, Seattle City Councilmember Sally Bagshaw, and Port of Seattle Commissioner Gael Tarleton are discussing this idea.

Can the ancillary equipment facility be placed in the location of the former Northwest Harvest building?

King County's preferred tank location at the West Yard site is located too far away from this building for odor control and electrical facilities.

Several suggestions and questions about surface use above the underground storage tank were received by the project team.

It was noted that during design, the project team will work with the Port of Seattle and Seattle Parks staff, as well as the community, as facility design and restoration plans are developed. Some areas of the tank surface may be available to the property owner for parking, and it is feasible to cover some areas with grass and put in hatches that can be walked on. There are many utilities in parks throughout the area that include these types of surface features. During design, the project team will consider surface uses along with codes for specific facility elements and safety and access for operations and maintenance staff.

Could flows from other locations be transferred to the CSO storage tank?

It was explained that this facility is being designed for specific flows through this system and other flows could not be transferred to the CSO storage tank. In addition, regulations do not allow CSO control facility to be used for other purposes, even storage of sanitary sewer flows.

Could a tank be placed under the piers at Terminal 91?

The team considered this suggestion and explained the difficulties of locating an open sewer facility in a tidal zone that is subject to regular inundation and explained that it is not feasible for permitting reasons.

Project Design

What did the project team discover from the first geotechnical borings?

Geotechnical investigations are still underway; sampling is still occurring and samples are under analysis. After the first phase of borings is completed, the design team will perform analysis and monitoring activities, review the work carefully, and develop a report to assist in project design. The project team has offered to host a technical workshop to discuss geotechnical



boring findings, possibly in January, for interested people to learn about the soils and groundwater conditions and how this information is used to identify the optimal pipeline alignment below the hill. We have met with the project neighbors in August and October, and will continue working closely with the community throughout design to keep them informed, answer questions, and address concerns.

How deep will the gravity sewer pipeline be?

The pipeline will be installed up to 150 feet deep and will be located under the hill between 32nd Avenue West and the Smith Cove area. The ends of the pipeline near 32nd Avenue and Smith Cove will be shallower where they exit the hillside. We will be able to provide a conceptual graphic showing a cross section of the hill with pipeline depths when an alignment is determined.

Will installation of the new gravity sewer line mean that the existing South Magnolia Interceptor in the tidelands won't be used anymore?

No, this project will add conveyance for peak flows beyond system capacity to the underground storage tank. Flows within system capacity will still be conveyed through the existing pipeline to Interbay Pump Station for transfer to the West Point Treatment Plant.

Does the team know if the West Yard site has contaminated soil?

As part of design phase investigations, the project team will evaluate soils for contamination in the area of excavation. Any findings will be specific to this area and do not speak to conditions on the remainder of the site. If there are contaminated soils, the project team will evaluate appropriate methods for removal, handling, and disposal.

Current disaster preparedness information from the City of Seattle indicates this area could be affected by tsunamis. Is King County's project team considering this for the storage tank?

King County carries out different types of assessment on how emerging issues like growth and climate change may affect wastewater conveyance and treatment facilities. Since natural disasters are a constant threat to our region, our facilities are built to current design standards and King County's staff has emergency preparedness protocols in place. As an example, emergency operations were put in place and an evacuation of West Point Treatment Plant was conducted when tsunami warnings were issued in March 2011.

The Magnolia CSO Control facility is not critical to wastewater conveyance and is instead only used during storms. Temporary impacts to this facility would not affect wastewater



conveyance in the area. If a large storm were to occur while the CSO Control facility was being returned to operational use, wastewater flows would revert to the current conveyance system

operating scheme, (CSOs would occur from the permitted outfall if flows exceeded system capacity).

Would the pipeline be affected or would it affect the hill during an earthquake, landslide, or tsunami? There would be no expected affect on the slope during these events. The pipeline will be installed below the hill outside of the zone of influence of both landslides and tsunamis. The pipeline would be constructed of flexible material and would move with the slope during a seismic event, and soils around the pipeline are stabilized during installation.

How does gravity flow work in a pipeline installed by Horizontal Directional Drilling (HDD)?

HDD, the trenchless method described in these meetings, is frequently used to install pipelines under water bodies, where the elevation of the ends on either side of the water body is maintained to create a siphon effect. In this instance, a gradient of flow from 32nd Avenue West to the underground storage tank will be maintained during the installation of the pipe.

Construction Impacts

Do you know how much noise there will be, and how you will address noise during construction?

The design team includes a consultant who specializes in acoustical analysis. This consultant can assess conditions in the project areas and assist with any necessary monitoring during construction. The team has existing information on noise levels generated by specific equipment and activities. During the design phase, the team may identify reasonable means of buffering noise such as sound walls. Construction permits establish allowable noise limits and the contractor is expected to comply with them. King County staff will be available to respond 24/7 during construction to concerns and complaints about these types of issues, and will work closely with the contractor to resolve any problems.

During tank construction, will the work generate dust?

The contractor will be required to follow permit conditions and institute best management practices to comply with environmental requirements. The contract documents will include specifications such as establishment of wheel washes for trucks to prevent tracking of dirt onto roadways. There will be a 24/7 hotline number during construction that the community can use if there is specific concern over this or other issues. King County will hold pre-construction



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community meetings with the contractor to present more detailed information about schedule, activities, and measures to comply with environmental and construction permits.

What time of year will construction occur? When will the loudest construction tasks occur?

Construction will occur over a two year period from start to finish. The schedule for work activities, such as pipeline installation and tank construction, will be developed at a later time and conveyed to the community by newsletters, email, and/or community meetings.

King County has a multi-disciplinary review process during design that includes community relations staff members who provide information about events and activities, and other community parameters that might need consideration along with other factors that may influence schedule.

Attendance

King County Wastewater Treatment Division

Shahrzad Namini, Project Manager

Monica Van der Vieren, Community Relations Lead

Terry L. Smith, Regulatory Compliance and Land Acquisition Services

Tetra Tech

Jeff Lykken, Project Manager

Shannon and Wilson

Mike Kucker, Geotechnical Analyst

Staheli Trenchless Consultants

Kim Staheli, Principle Engineer

Triangle Associates, Inc.

Robert Wheeler, Community Relations

Kristine Cramer, Community Relations

Alan Foster, Community Relations

October 19 Neighbors Advisory Committee and October 20 King County community meeting

Port of Seattle

Mark Griffin, Real Estate Manager

Rosie Courtney, Public Affairs



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City of Seattle Parks Department

Don Harris, Property and Acquisition Service Manager

ALTERNATIVE FORMATS AVAILABLE 206-684-1280 / 711 (TTY Relay)