



During Spring 2010, the CSO Beach Projects team will review these alternative means of accomplishing CSO control. Public input will help to inform King County's decision on a proposal for CSO Control in each project basin. The proposal will then go through the environmental review process required by state law.

## How You Can Participate

- Visit the CSO Program Web page to learn about King County's work to reduce combined sewer overflows
- Visit the CSO Beach Projects Web page [www.kingcounty.gov/CSOBeachProjects](http://www.kingcounty.gov/CSOBeachProjects)
  - learn about work in Barton, Murray, Magnolia, and North Beach area
  - give feedback online until April 16
- Attend public meetings to view presentations, ask questions, and provide feedback
- Contact us:
  - E-mail [CSOBeachProjects@kingcounty.gov](mailto:CSOBeachProjects@kingcounty.gov)
  - Contact Monica Van der Vieren at 206-263-7301

### Alternative Formats Available

206-684-1280  
TTY Relay: 711

Printed on recycled paper.  
Please recycle.

1002\_1323\_CSObeach\_MAGNOLIA.indd mdev

W2021

*Creating Resources from Wastewater*



## King County Presents Alternative Means for Combined Sewer Overflow Control in West Seattle and North Seattle

Learn More and Provide Input at Public Meetings

### Barton

March 18, 2010

6-8:30 p.m.

Southwest Community Center

2801 S.W. Thistle St., Seattle

### Magnolia

March 23, 2010

6-8:30 p.m.

Magnolia Community Center

2550 34th Ave. W., Seattle

### Murray (Morgan Junction)

March 29, 2010

6-8:30 p.m.

Southwest Community Center

2801 S.W. Thistle St., Seattle

### North Beach

March 30, 2010

6-8:30 p.m.

Loyal Heights Community Center

2101 N.W. 77th St., Seattle

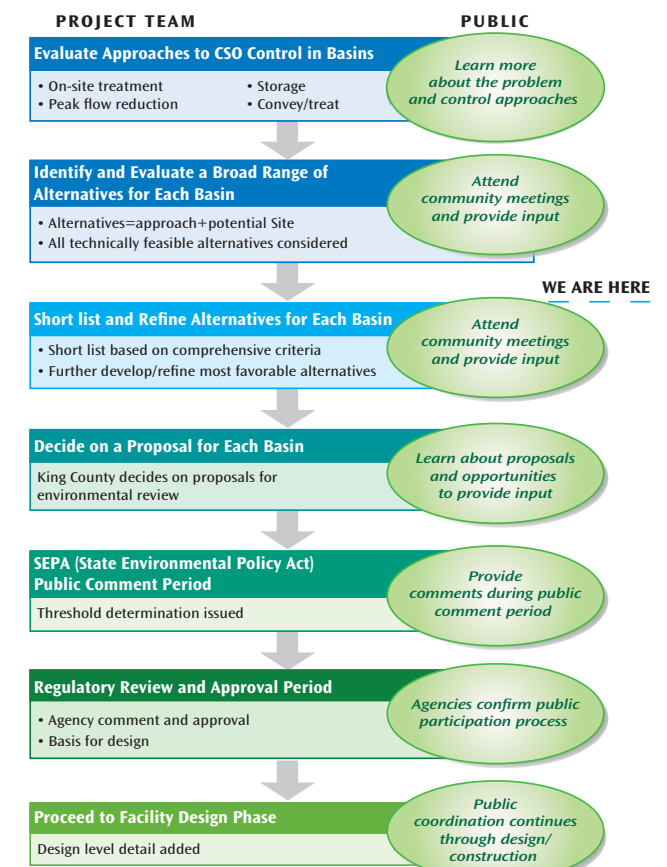
King County's CSO Beach Projects team has identified several alternative means for CSO control in the Barton, Murray, North Beach and Magnolia areas. In areas where stormwater and sewage flow in the same pipe, overflows into waterways can occur during heavy rains. CSO control projects will help manage peak flows from areas of Barton, Murray, North Beach and Magnolia connected to the county's CSO facilities, limiting overflows of untreated stormwater and sewage to Puget Sound.

In public meetings during Fall 2009, the project team presented approaches for CSO control, including conveyance, storage, on site treatment and stormwater reduction (demand management). People were informed about the upcoming development of CSO control alternatives and opportunities for public participation.

Inside, you will find information about alternatives for CSO control for the Barton basin and opportunities to attend public meetings and provide input.

*King County will decide on a proposal for CSO control in each of the four project basins: Barton, Murray, North Beach, and South Magnolia. The public will have opportunities to inform the county's decision process.*

*This diagram will help you keep track of the decision process and opportunities to participate*



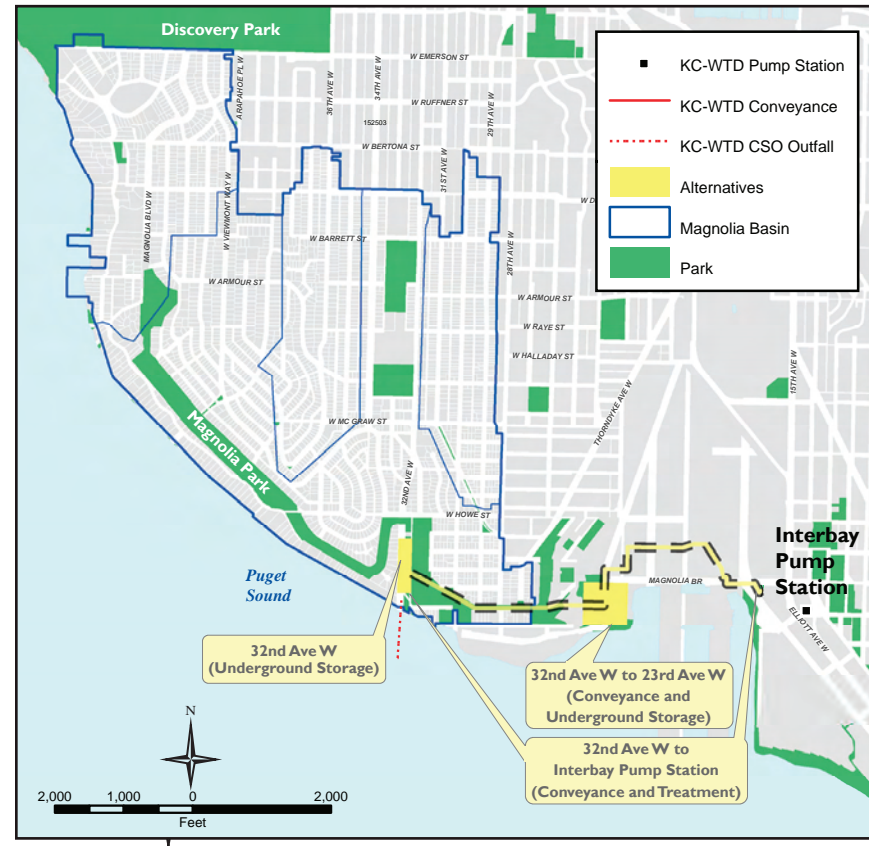
The King County Wastewater Treatment Division (WTD) provides high quality regional wastewater service. As part of WTD's mission to protect public health and the environment, the Combined Sewer Overflow (CSO) Program has worked to reduce overflows of combined stormwater and sewage since 1980. King County has reduced CSO volume from 2.3 billion gallons per year to less than 1 billion gallons per year.

For more information: [www.kingcounty.gov/CSOBeachProjects](http://www.kingcounty.gov/CSOBeachProjects)

## Alternatives means for CSO control in Magnolia Basin

In 2008, King County reported that the South Magnolia CSO facility has 19 overflows per year on average that discharge a total of 31 million gallons into Puget Sound from the outfall off South Magnolia. Alternative means being considered must be capable of managing a volume of about 1.8 million gallons of peak flows in order to meet regulatory requirements.

Location of alternative means for CSO Control in Magnolia Basin.



## 32nd Ave W to Interbay Pump Station (conveyance and treatment of peak flows)

### Project elements

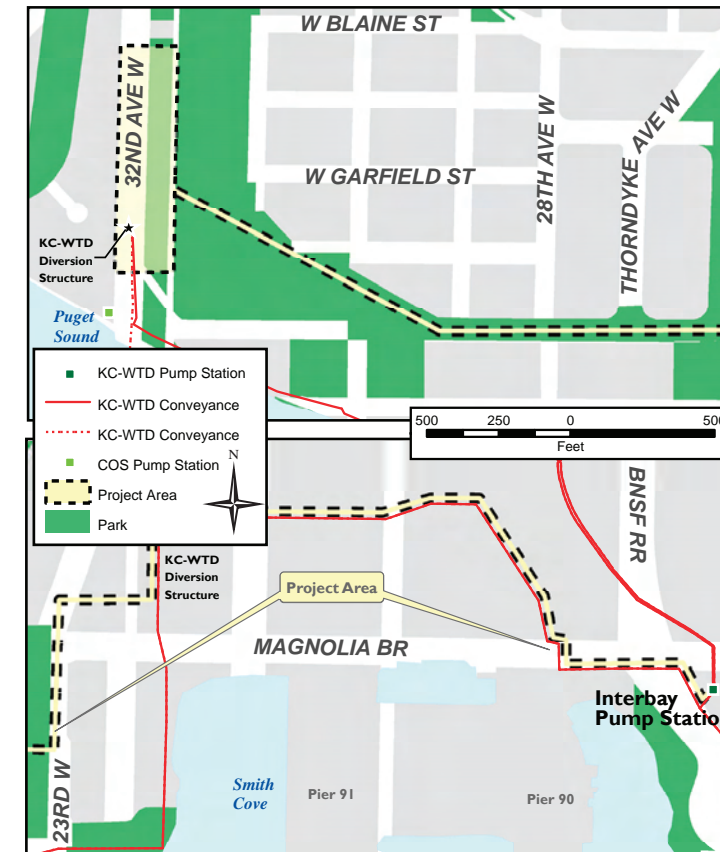
- Potential new pump station and force main or pressure sewer extending from 32nd Avenue to 23rd Avenue
- New pressure sewer from 23rd Avenue to Interbay Pump Station
- Potential in-line storage on Port of Seattle property north of Magnolia Bridge

### Benefits

- Transfers all flows out of basin
- Similar to other King County operating facilities
- Limits facilities in steep slope areas
- Design refinements may eliminate pump station element
- Alternative is located outside of shoreline zone

### Challenges

- Trenchless drilling technique will be required to construct sewer
- Easements from Seattle Parks and Port of Seattle required for this alternative
- Narrow street will require management of residential access during construction
- Steep slopes may require special construction techniques
- Some potential for cultural resources issues



## 32nd Ave W (underground storage)



### Project Elements

- Underground storage tank located in Seattle Parks property along 32nd Avenue W
- Odor control and electrical facilities
- Underground diversion structure to send flows to tank

### Benefits

- Single facility located outside of shoreline zone
- Similar to other King County operating facilities

### Challenges

- Project located in steep slope area that will require above ground retaining wall
- Use of Parks property required for this alternative
- Narrow street will require management of residential access during construction
- May affect Seattle Public Utilities pump station

## 32nd Ave W to 23rd Ave W (conveyance and underground storage)

### Project elements

- Diversion structure at 32nd, gravity sewer line in right-of-way through hill, underground storage adjacent to 23rd Ave W south of Garfield St. W.
- Odor control and electrical facilities
- In-tank pump station and force main to convey flows back to system on Port of Seattle property north of the Magnolia Bridge.

### Benefits

- Single facility located outside of shoreline zone
- Transfer all flows out of basin
- Similar to other King County operating facilities
- Limits facilities in steep slope areas

### Challenges

- Trenchless drilling technique will be required to construct gravity sewer
- Use of Parks property required for diversion structure.
- Narrow street will require management of residential access during construction
- Steep slopes may require special construction techniques
- Some potential for cultural resources issues.
- Use of either Seattle Parks or Port of Seattle property for storage tank.

