



Geotechnical findings for the South Magnolia CSO Control Project

Initial geotechnical investigations

In fall 2011, King County conducted geotechnical investigations along West Eaton Street and West Galer Street as part of the South Magnolia CSO Control Project. Geotechnical conditions informed pipe specifications and confirmed that soils are suitable for the proposed installation method.

A total of nine borings were drilled and sampled (see graphic below):

- Two borings along W Eaton St
- Five borings along W Galer St
- Two borings at the storage tank location on the Terminal 91 West Yard

Information was also used from past geotechnical investigations, including:

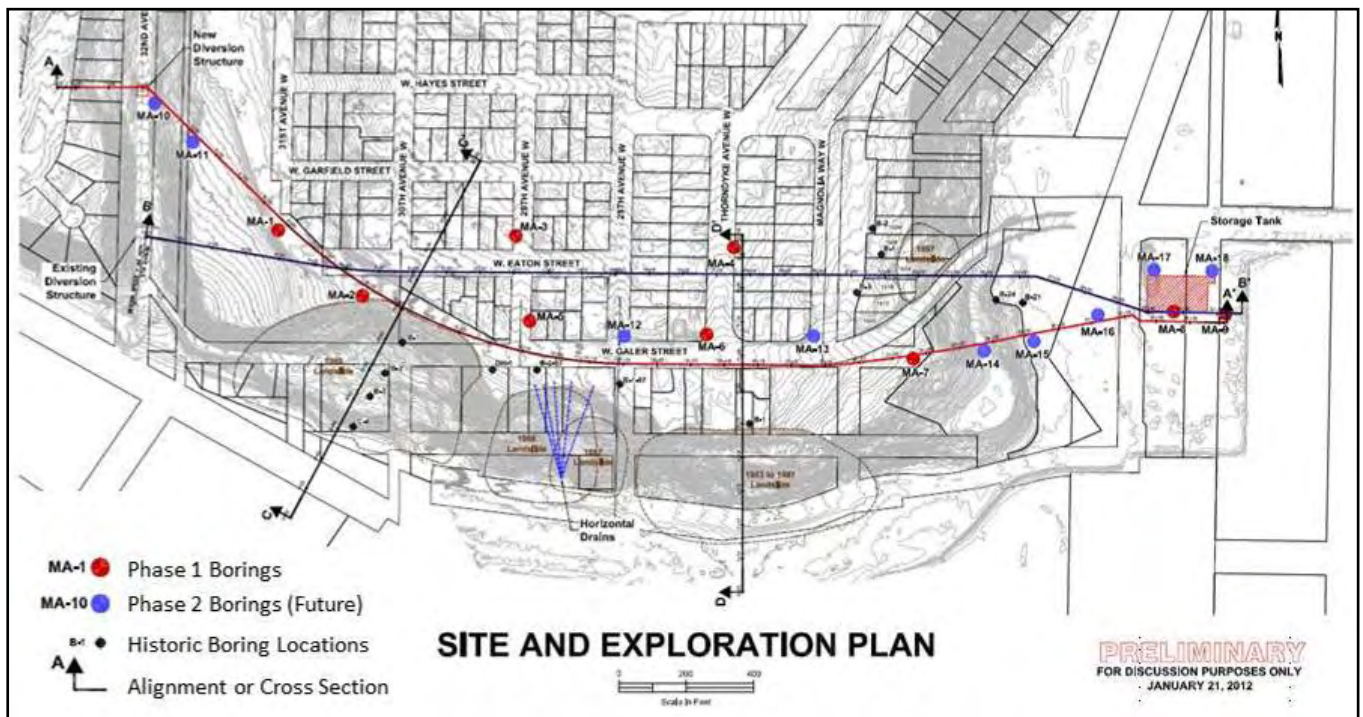
- Magnolia bridge replacement
- Dames & Moore horizontal groundwater drains
- Evaluation of the 1968, 1969, 1983-1987, and 1997 landslides
- Information from residents



Initial borings were completed in fall 2011.

Future work

A second phase of borings, shown in blue below, will be performed in 2012.



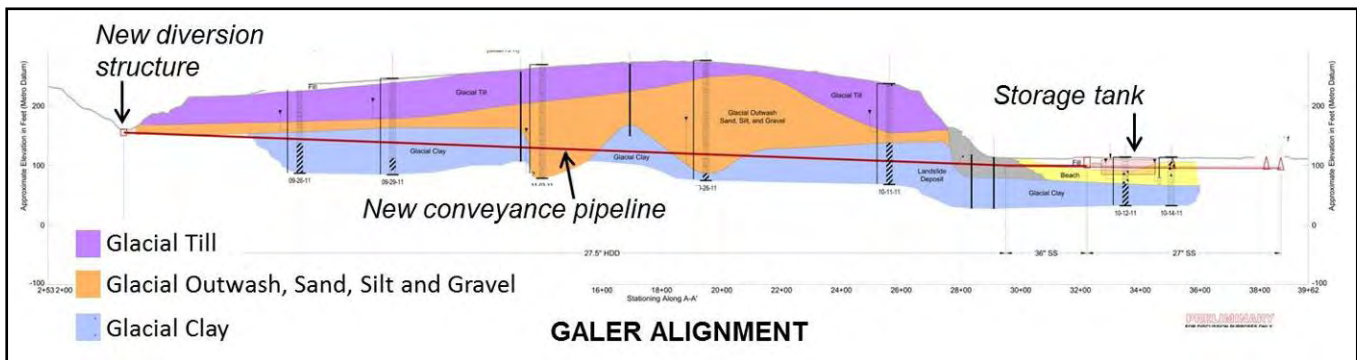


Results of initial geotechnical investigations

Results indicate that alignments along both West Eaton Street and West Galer Street are suitable for pipeline installation (see graphics below). Both alignments have:

- Dense, glacially consolidated materials
- Typical soils for this region , in which many utility pipelines have been installed
- Good soils for the proposed Horizontal Directional Drilling method

Many successful projects have been completed in these types of soils.



*To view a larger version of the above graphic, visit the library page of the project website.
More information on the West Eaton Street alignment can also be found on the website.*

Geologic monitoring

King County is monitoring groundwater elevation and ground movement in the South Magnolia CSO Control Project area. Piezometers and inclinometers were installed in boring locations. Initial readings were taken in November 2011. Readings will be performed seasonally during design. Readings will be performed prior to, during and after pipeline installation.

For more information:

Visit the project website:

[www.kingcounty.gov/environment/wtd/Construction/Seattle/SMagnolia CSOSTorage](http://www.kingcounty.gov/environment/wtd/Construction/Seattle/SMagnolia_CSOSTorage)

Hard copies available upon request.

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