

## **Engineering Evaluation of Water Resources for Shallow LRT Tunnels**

### **Background**

The COUNCIL has hired Kimley-Horn and Associates (KHA) to conduct preliminary engineering activities to develop plans and designs for the Southwest Light Rail Transit (SWLRT) Project.

In August 2013, the COUNCIL's Southwest LRT Project Office (SPO) met with City of Minneapolis staff, Minneapolis Park and Recreation Board (MPRB) staff and Minnehaha Creek Watershed District (MCWD) staff to share technical information related to the design and construction of the shallow LRT tunnels in the Kenilworth Corridor in Minneapolis. The area addressed by this potential design option is located between the proposed locations of the West Lake Station and the Penn Station in the general area of the Kenilworth Corridor.

SPO developed a draft Kenilworth Shallow LRT Tunnel Basis of Design Report that provides technical information on the proposed approach to constructing the tunnels including control of groundwater during construction and addresses potential impacts to the area water resources both during construction and during operations.

On September 4, 2013, the SPO sent a letter to MCWD requesting that MCWD provide technical feedback in a written response to the materials provided regarding the Shallow LRT Tunnel.

On September 10, 2013, MCWD sent a letter to SPO responding to the SPO request. The MCWD letter included an attached letter dated September 9, 2013 from MCWD District Engineer (Wenck Associates, Inc.) that included comments to the SPO request for technical feedback.

The SPO is currently developing a draft water monitoring program that will address water levels, ground water levels and water quality during construction of the Shallow LRT Tunnels and during LRT operations.

### **Scope of Work**

The CONSULTANT shall conduct an engineering evaluation and technical review of the following documents:

- Kenilworth Shallow LRT Tunnel Basis of Design Report (DRAFT)
- September 4, 2013 SPO letter to MCWD
- September 10, 2013 MCWD response letter to SPO
- September 9, 2013 Wenck Associates, Inc. letter to MCWD
- SWLRT Water Monitoring Program (DRAFT)
- Phase I ESA

Specifically, the CONSULTANT shall provide the following services according to the schedule provided below:

1. Review the materials and information listed above provided by the SPO.



2. Participate in a kickoff meeting at the SPO in St. Louis Park, MN with project stakeholders. The kick-off meeting will consist of an overview of the work performed to date by the SPO and the technical feedback received to date by the SPO.
3. Conduct an engineering evaluation and technical review on the materials provided in the draft Basis of Design Report based on the issues identified in the September 4, 2013 SPO letter sent to MCWD.
4. Conduct an engineering evaluation and technical review of the draft water monitoring program as developed by the SPO for the Shallow LRT Tunnel.
5. Prepare and provide a draft report for review by the COUNCIL that includes the results of the engineering evaluations and other reviews conducted under this Scope of Work.
6. Participate in a meeting at the SPO with project stakeholders to review the draft report and receive comments.
7. Participate in and present the draft results of the engineering evaluations at up to two Project advisory committee meetings as directed by the COUNCIL.
8. Prepare and provide a final report.
9. Participate in and present the final results of the engineering evaluations at up to two Project advisory committee meetings as directed by the COUNCIL.