


PUBLIC WORKS DEPARTMENT
MEMORANDUM #2011 – 43

DATE: October 27, 2011
TO: Honorable Mayor Joyce Downing and City Council Members
FROM: William A. Simmons, City Manager
David H. Willett, Director of Public Works 
SUBJECT: CR – 99, Standley Lake Pipeline Repair

BACKGROUND

The Standley Lake Pipeline is jointly operated by the Cities of Northglenn and Thornton through the Standley Lake Pipeline Joint Operating Committee (SLPJOC). The Standley Lake Pipeline is Northglenn's only raw water pipeline that transmits water from Standley Lake to the City of Northglenn Water Treatment Plant. The Standley Lake Pipeline was installed in 1980 and is composed of a 48" prestressed concrete cylinder pipe (see attached picture), manufactured by Interpace Corporation. The Interpace prestressed concrete cylinder pipe brand has had a history of problems and failures.

Under the conditions of the Standley Lake Pipeline Joint Operating Agreement, the City of Thornton is the lead City for this project and therefore the contracting agency and project manager. In addition, the Standley Lake Pipeline Joint Operating Agreement states that all costs to maintain the pipeline shall be shared equally between the Cities.

Phase I (structural inspection): The electromagnetic evaluation and internal inspection was completed in November of 2009. The final report was submitted by Pure Technologies and on April 27, 2010. Two pipe sections showing numerous broken wire strands were recommended for replacement.

Phase II (leak detection): Pure Technologies US, Inc submitted a proposal for performing the leak detection on March 31, 2011. The total cost of the proposal is \$102,000.00. On September 26, 2011 the City of Thornton issued a Notice – to – Proceed to Pure Technologies. Note that the inspection must be performed when water demand is the lowest in the fall or winter months.

Subsequent to the leak evaluation, the two sections referenced in Phase I will be replaced as well as additional sections (if any) that are found to be leaking. Once the full extent of the pipeline investigation is know, Staff will update Northglenn City Council on proposed construction repair/replacement and associated costs.

BUDGET/TIME IMPLICATIONS

The estimated cost of the project as proposed with a 10% contingency is \$112,200.00. The City of Northglenn's cost share, including contingency, is \$56,100.00. If approved, adequate funding is available from the Water and Wastewater Fund/2011 Capital Projects (Standley Lake Pipeline Repair).

RECOMMENDATION

Attached to this memorandum is a Resolution which, if approved would:

- 1) Authorize the transfer and expense of funds for the City of Northglenn's share of the Standley Lake Pipeline Repair Project from the Water and Wastewater Fund to the Standley Lake Pipeline Joint Operating Escrow Account in the amount of **\$51,000.00**;
- 2) Authorize the transfer and expense, if necessary, of **\$5,100.00** as the City of Northglenn's share of a 10% contingency and authorize the City Manager, on behalf of the City, to approve minor changes in the scope of work and execute relevant change orders up to the approved City of Northglenn expenditure limit of **\$56,100.00**.

Staff recommends approval of the proposed Resolution.

STAFF REFERENCE

David H. Willett, P.E., Director of Public Works
Ray Reling, Public Works Superintendent – Utilities

dwillett@northglenn.org or 303.450.8783
rreling@northglenn.org or 303.450.4049



Mortar

Prestressing Wires

Outer Concrete

Steel Cylinder

Inner Concrete

SPONSORED BY: MAYOR DOWNING

COUNCILMAN'S RESOLUTION

RESOLUTION NO.

No. CR-99
Series of 2011

Series of 2011

A RESOLUTION APPROVING THE STANDLEY LAKE PIPELINE REPAIR PROJECT AND AUTHORIZING THE NECESSARY EXPENDITURES TO ACCOMPLISH THE PROJECT

WHEREAS, the Cities of Northglenn and Thornton both own and operate water systems which include the storage of raw water in Standley Lake; and

WHEREAS, the Cities of Northglenn and Thornton entered into a Joint Operating Agreement dated September 24, 1994 and agreed to share the cost of the operation, maintenance, repair and replacement of the Standley Lake Pipeline; and

WHEREAS, the City of Thornton is the lead City for the Standley Lake Pipeline Repair Project and is the contracting agency and project manager for the Project.

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NORTHGLENN, COLORADO, THAT:

Section 1. The City Council hereby approves the Standley Lake Pipeline Repair Project (the "Project"), in an amount not to exceed \$112,200.00, and authorizes the following to accomplish the Project:

(a) The transfer of funds for the City of Northglenn's share of the Project in the amount of \$51,000.00 from the Water and Wastewater Fund to the Standley Lake Pipeline Joint Operating Escrow Account; and

(b) The City of Northglenn's share of a ten percent (10%) contingency for the Project in the amount of \$5,100.00, and to authorize the City Manager, on behalf of the City, to approve minor changes in the scope of work and execute relevant change orders up to the approved City of Northglenn expenditure limit of \$56,100.00.

DATED at Northglenn, Colorado, this ____ day of _____, 2011.

JOYCE DOWNING
Mayor

ATTEST:

JOHANNA SMALL, CMC
City Clerk

APPROVED AS TO FORM:

COREY Y. HOFFMANN
City Attorney