

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: October 14, 2009

Board Item: V-A-23

**CHANGE ORDER NO. 7  
FOR THE CONSTRUCTION OF  
CAT PUMP STATION AND MILLER RESERVOIR AND DAM  
ELECTRICAL AND CONTROL WORK  
CONTRACT 11557A**

Action by Consent

Action

Information

On August 13, 2008, the Board awarded Contract 11557A to Aslan Construction to Construct Cat Pump Station and Miller Reservoir and Dam Electrical and Control Work in the amount of \$3,426,720.00. The project is currently at substantially completion and transitioning to final closeout.

Six change orders and one amendment worth a total of \$395,192.00 have been approved, including additional dewatering, an embankment to support the interconnect pipe, road base changes, electrical changes and added an electric security gate. Change Order No. 7, worth \$172,166.00 is requested.

Approximately 90% of Change Order No. 7 involves an overrun on the cubic yards of material placed in bedrock borrow areas. These borrow areas were excavations in the floor area by the miner to harvest bedrock material. Groundwater from bedrock fractures filled the excavations, creating a large series of ponds. The evaporation rates from the exposed groundwater kept the reservoir from passing the design standard for the State leakage test. The State Engineer's Office agreed to a retest if the majority of the ponds were backfilled.

The volume to fill all the ponds was unknown, as was the amount of material available for backfilling. This was because the bedrock contact varied and material could only be excavated as long as no groundwater was exposed. The Contractor was directed to fill as many ponds as possible while grading the floor to drain. Aslan was able to fill all the ponds and grade the reservoir floor. The actual volume of material moved, determined using before and after mapping, exceeded the contract amount by 30,400 cy. The reservoir subsequently passed the design standard for the leakage test.

The 2009 Capital Budget (MPC 1AL0226) includes \$2,792,014.00 in funds for this project. The 2008 Budget was in the amount of \$1,912,578.00 but only \$1,386,859.00 was spent leaving \$525,719.00 in unspent funds.

The MWBE Goal for this project is 5%. Aslan Construction achieved 6.22% MWBE participation in their original bid.

**RECOMMENDATION**

It is recommended the Board approve Change Order No. 7 to Contract 11557A to Aslan Construction Company in the amount of \$172,166.00, bringing the total contract amount to \$3,994,078.00. There is no change in the final completion date of October 31, 2009.

**Budget Considerations**

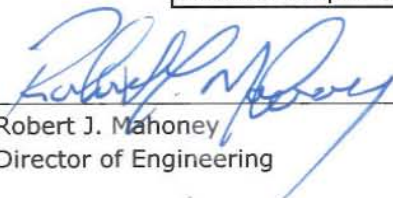
Master Plan Code(s): 1AL0226

Budgeted Item  Unbudgeted Item  Funds transferred from another project: 1AD0022

**Budget Information**

2009 Budget	\$2,792,014.00
Transfer In	\$600,000.00
Revised 2009 Budget	\$3,392,014.00
Amount Requested This Item	\$172,166.00
YTD Expenditures	\$3,273,487.00
Additional Expenditures Anticipated	0.00
Revised 2009 Estimate	\$3,445,653.00
Variance Required	\$53,639.00

Approvals:

  
Robert J. Mahoney  
Director of Engineering

  
Manager Approval