



# City Council Report

AGENDA ITEM 7d  
DATE 6-1-09

**Date:** June 1, 2009  
**To:** City Council  
**Through:** Jack Friedline, Deputy City Manager  
**From:** Beth Huning, City Engineering  
**Subject:** Upgrade of Sulfide Control Stations  
City Project No. 02-364-001  
Council Districts 2, 3, 4, and 6

## Purpose and Recommendation

The purpose of this report is to provide information to the Council on the results of the bids received for City Project No. 02-364-001, Upgrade of Sulfide Control Stations, for the City's wastewater collection system. Refer to Exhibit "A" for the project locations.

Staff recommends that Council award this project to the low bidder, MGC Contractors Inc, for a total award of \$1,015,023.90.

## Background and Discussion

Over time, wastewater produces odors in the City's sanitary sewers. These odors are the result of the conditions in the sewer and the chemistry of the wastewater. Odors are typically the result of the presence of hydrogen sulfide gas. The City applies chemicals at key locations to control the production and release of sulfide gas. These facilities are called Sulfide Control Stations and are used to introduce the chemicals into the wastewater to prevent the formation and release of the odorous gases.

This project will rehabilitate the four existing sulfide control stations listed in the table below.

Station	ADDRESS
Southwest Water Reclamation Plant (SEWRP) Sulfide Control Station	6312 E. Baseline Road
Horne Sulfide Control Station	1103 S. Horne
Alma School Sulfide Control Station	2713 S. Alma School Road
Falcon Field #5 Sulfide Control Station	3522 E. University Road

The first three stations were constructed in the 1980's and 1990's. Due to the corrosive nature of the chemicals and the age of the systems, they have deteriorated to the extent that the chemical storage tanks and piping; the chemical containment area liner; and the controls and electronics must be replaced to continue to function. This project will also upgrade the piping and facilities to prevent the leakage of

chemicals from the piping and chemical containment areas.

Community Impact – Temporary impacts include outages at each station (approximately 30 days in duration at each site) while the rehabilitation work is being performed. Temporary impacts may also include traffic restrictions, noise and dust. Once started, construction on the overall project is anticipated to be completed within 130 calendar days.

### **Alternatives**

One alternative would be to not perform the upgrades to these sulfide control stations. This is not recommended because further deterioration of these could eventually render them unserviceable and prevent the City from using these stations to control odors within the wastewater system.

### **Fiscal Impact**

The recommended total award amount for this project is \$1,015,023.90, based on the low bid of \$922,749.00 plus an additional \$92,247.90 (10% allowance for change orders).

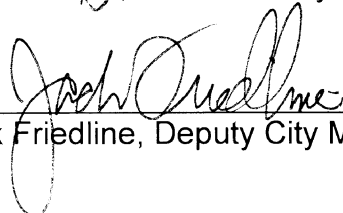
Funding is available in the adopted FY 08/09 Wastewater Capital Bond Program. The project may also be partially funded with a 2%-interest loan from the American Recovery and Reinvestment Act of 2009 (ARRA) through the State's Water Infrastructure Finance Authority (WIFA). As a condition of receiving the WIFA funding, this project must be "shovel ready" by June 15, 2009, which means able to begin construction.

### **Coordinated With**

The Water Resources Department concurs with this recommendation.

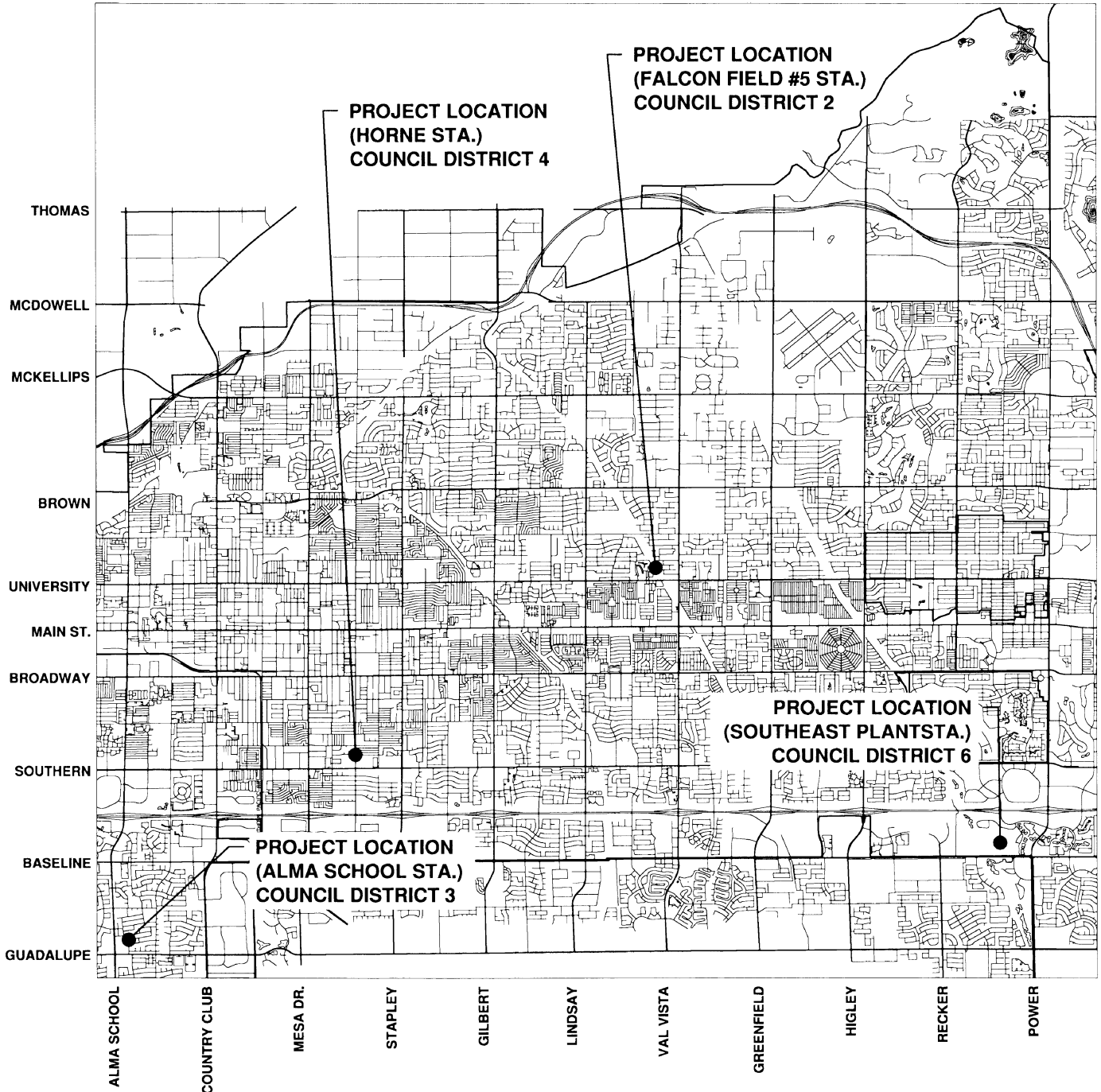
  
\_\_\_\_\_  
Kelly Jensen, Assistant City Engineer

  
\_\_\_\_\_  
Beth Huning, City Engineer

  
\_\_\_\_\_  
Jack Friedline, Deputy City Manager



# EXHIBIT "A"



## PROJECT LOCATION MAP UPGRADE OF SULFIDE CONTROL STATIONS

PROJECT NO. 02-364-001



Budget Information:

Funding is available in the adopted FY 08/09 Wastewater Capital Bond Program. The project may also be partially funded with a 2%-interest loan from the American Recovery and Reinvestment Act of 2009 (ARRA) through the State's Water Infrastructure Finance Authority (WIFA). As a condition of receiving the WIFA funding, this project must be "shovel ready" by June 15, 2009, meaning that the contract must be awarded by that date to qualify for the ARRA funding.

CITY OF MESA  
MESA, ARIZONA

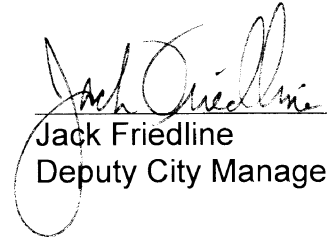
UPGRADE OF SULFIDE CONTROL STATIONS

**PROJECT NO. 02-364-001**

Tabulation of Bids Received, Thursday, May 14, 2009, at 1:00 P.M.

<b>ENGINEER'S ESTIMATE</b>	<b>\$1,650,129.82</b>
1. MGC Contractors Inc.	\$922,749.00
2. City Wide Contracting LLC	\$957,218.00
3. Norquay Construction Inc.	\$1,167,352.89
4. Haydon Building Corp.	\$1,327,833.00

Recommend award to low bidder, MGC Contractors, Inc., in the amount of \$922,749.00 plus an additional \$92,274.90 (10% allowance for change orders) for a total award of \$1,015,023.90.

  
\_\_\_\_\_  
Jack Friedline  
Deputy City Manager