

Office of Neighborhood Services

City of Richland Hills, Texas

## Memorandum

To: Honorable Mayor Bill Agan and members of the Richland Hills City Council  
From: Scott Mitchell, Director of Neighborhood Services  
Date: April 21, 2015  
Subject: Booth Well Repair Project

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### **Council Action Requested:**

Consider approval of repair project for the Booth Water Well.

### **Background Information:**

The Booth water well is one of four water wells currently utilized by the city to produce potable water as a supplement to the water purchased from Fort Worth. It normally produces approximately 360 gpm from the Trinity aquifer (the well is approximately 1050 feet deep). Early this year the well stopped producing. Examination of the well determined the pump and motor were barely functioning, as well as the casing had partially collapsed. The sump area for the pump is also full of silt and debris. It should be noted that the last significant maintenance performed on the well was in 1999.

This request is to repair/replace the well pump and motor as well as repair damaged well casing, clean sump and possibly lower pump level, replace worn check valves and other maintenance to bring the well back to prime operating condition.

The cost of the project is \$51,122.01, with the service provided by Millican Well Service LLC of Fort Worth. Millican Well Service is considered as a sole source provider due to the specialized services required for municipal water wells and

water production. Millican has been the primary well service provider for Richland Hills for multiple years.

Failure to do these repairs will result in the potential inability to maintain the required residual pressures needed to keep the water system intact during peak usage during the late summer months. This can lead to potential contamination of the water system. Supplementing the system with an increase of purchased water from Fort Worth would possibly exceed the delivery capability of the connections with Fort Worth and would definitely push the city into a higher cost per gallon as listed in the contract.

Funding for the project will be with funds from the Enterprise Capital Projects Fund (088). These funds are dedicated for water and wastewater capital projects.

**Board/Citizen Input:** N/A

**Financial Impact:** \$51,122.01

**Staff Contacts:**

Scott Mitchell  
Director of Neighborhood Services  
[smitchell@richlandhills.com](mailto:smitchell@richlandhills.com)

**Attachments:**

Millican Well Service Quote

**MILlicAN WELL SERVICE LLC**  
**P.O. BOX 820487**  
**FORT WORTH, TEXAS 76182**  
**817-232-0077**

Name / Address
City of Richland Hills 3200 Diana Dr. Fort Worth, Texas 76118

## Estimate

Date
3/17/2015

Well Name
Booth

Qty	Description	Cost	Total
15	Labor and equipment to pull the pump and motor from the well, haul to the shop for testing and inspect piping.	185.00	2,775.00
5	Labor and equipment to be onsite for camera survey.	135.00	675.00
1	Well Survey	2,250.00	2,250.00
30	Labor and equipment to bail out the well to bottom, sonar jet screens, acidize the well and bail out ready for pump and motor installation.	185.00	5,550.00
1	Sonar jet	2,750.00	2,750.00
2	Liquid acid descaler 5 gallon	250.00	500.00
1	Grundfos: 100hp 460v 3ph motor (8")	15,608.54	15,608.54
1	6MM8V-17 stage sub-turbine 280 GPM @ 995 TDH	9,362.24	9,362.24
467	4" Black Pipe T&C	16.94	7,910.98
2	4" SS Check Valve w/break out plugs	1,138.00	2,276.00
1.5	3/4" SS band-it buckles	98.00	147.00
2	3/4" SS band-it materials	180.00	360.00
1	Tape and splicing materials	155.00	155.00
2	Airline: 1050' x .35 a ft = \$367.50	367.50	735.00
1	Large 100# Gauge	67.25	67.25
<i>Thank you!</i>		<b>Subtotal</b>	\$51,122.01
Jerry Browning 2176WI		<b>Sales Tax (6.25%)</b>	\$0.00
Texas Department of Licensing and Regulation P.O. Box 12157 Austin, Texas 78711 512-462-7880		<b>Total</b>	\$51,122.01