



## City of Biggs

### Agenda Item Staff Report for the Regular City Council Meeting: November 10, 2015

TO: Honorable Mayor and Members of the City Council  
FROM: Mark Sorensen, City Administrator  
Subject: Authorization to purchase water well services.

#### Background:

The C Street well (AKA: Willard well) has an operational issue that appears to be caused by plugged inlet screens in the well casing. The fix for this issue falls into two main categories:

- 1) Remove the submersible pump, inspect the well casing (including the inlet screens) to determine the condition of the well casing and its inlet screens.
- 2) Based upon the results of the video inspection, devise a suitable cleaning method, clean the well, flush the well, and reassemble the well.

Attached please find two professional services proposals. The first includes pump removal, transporting the pump to the vendor's shop, disassembly of the pump, cleaning and inspection of the submersible pump. Next this proposal includes video inspection of the well casing, reassembly of the pump, delivery of the pump, and reinstallation of the pump into the well.

The second professional services proposal offers a variety of inlet screen cleaning options. Knowledge from the video inspection is expected to answer the question on which method is most appropriate.

When cleaning was needed at the 2<sup>nd</sup> Street well in 2012, Vibe Cleaning without air lift of debris was adequate. If this option is effective in this case then "Option #2" variant of Vibe Clean without airlift for \$2,900 would be the resulting course of action. The options rise in cost from that point to a maximum of \$26,500.

#### **Recommendation:**

Authorize the City Administrator to purchase water well professional services in an amount not to exceed \$32,000 with proceeds from Water Improvement Fund 110.

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Mark Sorensen, City Administrator



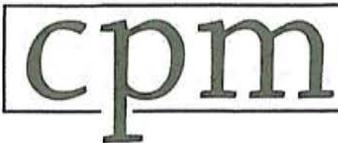
October 27, 2015

Mark Sorensen  
City of Biggs  
[Mark@biggs-ca.gov](mailto:Mark@biggs-ca.gov)

RE: Willard Street Well and Pump Inspection

Remove 60 HP Submersible Pump Transport to Shop, Disassemble, Clean and Inspect	\$2,200.00
Video Survey	\$ 750.00
Reassemble Pump, Deliver and Reinstall	\$2,400.00
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Total	\$5,350.00

Steven L. Greenwood  
Commercial Pump & Mechanical, Inc.



October 29, 2015

Mark Sorensen  
City of Biggs  
P.O. Box 307  
Biggs, CA 95917

## Well Cleaning Options for Willard Well

### Option #1 - Estimate to Brush, Air Lift, and Swab Willard Well

Mobilization / Demobilization	\$ 4,000.00
Equipment Rental – Air Lift Pipe and Hose, Compressor, Generator, Test Pump VFD, Transfer Pump and Hose, Filter Box w/ Fabric,	\$ 3,500.00
Brush 12” Stainless Steel Screen, 120’ – 140’, 160’ – 180’ and 200’ to 290’, 10 Minutes per foot of Screen, Inject 200 PPM Solution of Sterilene.	\$ 5,000.00
Air Lift Bottom of Well, Pump Debris to Filter Box, Discharge water to Storm Drain	\$ 4,500.00
Swab 14” Stainless Steel Screen, 120’ – 140’, 160’ – 180’ and 200’ to 290’, 10 Minutes per foot of Screen, Inject 200 PPM Solution of Sterilene.	\$ 5,000.00
Air Lift Bottom of Well, Pump Debris to Filter Box, Discharge water to Storm Drain	\$ 4,500.00

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**Total Price Option #1      \$26,500.00**

### Option #2 – Estimate to Vibe Clean Well Screen and Air Lift

Mobilization / Demobilization	\$ 4,000.00
Equipment Rental – Air Lift Pipe and Hose, Compressor, Transfer Pump and Hose, Filter Box w/ Fabric,	\$ 3,000.00
Vibe Clean Well Screen	\$ 2,920.00

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**Option #2 – Estimate to Vibe Clean Well Screen and Air Lift, Continued**

Air Lift Bottom of Well, Pump Debris to Filter Box,  
Discharge water to Storm Drain \$ 4,500.00

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**Total Price Option #2 \$14,420.00**

Note: This option may not be require Air Lift depending on the condition of the well.  
If no Air Lift is needed, the charge would be for Vibe Clean only (\$2,920.00).  
After Vibe Clean, the pump would be installed and customer would pump to waste.

**Option #3 – Test Pump**

Install and Remove Test Pump \$ 6,500.00  
8 Hour Step Draw Test \$ 2,400.00

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**Total Price Option #3 \$ 8,900.00**

Exclusions: Discharge Piping to Storm Drain to be Provided by Others  
Discharge Permit  
Water Quality Testing  
Performance and Payment Bonds

Thank you for the opportunity and for your confidence in Commercial Pump & Mechanical.



Grant Stanley  
Commercial Pump & Mechanical, Inc.