

ORIGINAL

**Clear Springs Utility
Explanation of Opinion of Probable Cost
Docket No. WS-01689A-11-0402**



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Item 1 COUNTRY WELL SITES STORAGE (WELLS 3 & 7)

Explanation of Need

Well 3 needs a 5000 gallon storage tank installed. Due to the new storage tank there will have to be two booster pumps and bladder tanks installed. The bladder tanks will work as a control vessel to control the booster pumps per the demand. The electrical system will need to be upgraded to accommodate present and future demand of this system and to be in compliance with current regulations.

Well 7 needs a 5000 gallon storage tank installed due to the exiting storage is not adequate to sustain the demand in this area. A second booster pump and bladder tank should be installed to have redundancy if one pump goes out. The electrical system will need to be upgraded to accommodate present and future demand of this system and to be in compliance with current regulations. This facility needs a new fence installed for added security of this site.

Explanation of cost

The opinion of probable cost is based on Past projects and bids

Item 2 Replace Fire Hydrants

Explanation of Need

The hydrants in the existing system are old. Many are in need of replacement whether due to age or physical damage. Those hydrants that are currently inoperable, leaking, or have been removed are listed on the OPC

Priority

This item is also 4th priority and will occur simultaneously with main replacements.

Explanation of cost

The opinion of probable cost is based on Past projects and bids

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Items 3 Repairs at well 18

Explanation of Need

The existing storage tank is settling on the west and needs to be stabilized with pressure grout.

Well 18 is down due to holes in the 6" column piping, the bowls to the pump and the bearings are damaged. What needs to happen to get this back on line is that 15 joints of column pipe needs replaced, the bearings (15 of them) need replaced and the bowls. The cost to do this is very high, we would like to install a 50 hp submersible pump and motor with new column pipe. The cost to install a new submersible pump and motor is not much more than Arizona Corporation Commission existing vertical turbine pump.

Explanation of cost

DOCKETED

MAY 01 2012

DOCKETED BY *TJM.*

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The opinion of probable cost is based on costs from RS means and D&M well service.

Items 4 Replace Damaged Isolation Gate Valves

Explanation of Need

Damaged valves should be replaced to allow flow through the pipes and to aid in isolating main breaks without interrupting service to more customers than necessary.

Explanation of cost

The opinion of probable cost is based on Past projects and bids

Items 5 Replace Distribution Services

Explanation of Need

Old Polyethylene material pipes are substandard and are leaking often. We would like to replace with K-copper piping. This will help with the high water loss in the system.

Explanation of cost

The opinion of probable cost is based on RS Means

ITEM ONE COUNTRY WELL SITES STORAGE (Wells 3 & 7)

ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	COST	NOTES
5,000 gal tank Well 3	1	LS	\$3,780.00	\$3,780.00	Loomis Tank Centers. Delivered. Vendor. No Davis Bacon
Steel Tank Ring Well 3	40	LF	\$15.10	\$604.00	\$6.04/LF X 2.5 Davis Labor Smith Pipe/Steel Co Verbal Delivered
5HP boosters Well 3	2	EA	\$2,611.00	\$5,222.00	Berkeley List. Vendor. No Davis Bacon
Facility piping & Plumbing Well 3	3	DAY	\$1,437.00	\$4,311.00	Equipment \$865/day, Labor \$572/day for pipefitter + Laborer Davis Bacon
New Materials	1	LS	\$5,000.00	\$5,000.00	66 LF above ground pipe, 6 LF below ground pipe, valves and fittings
Electrical Well 3	1	LS	\$2,500.00	\$2,500.00	verbal estimate from Jim's electric
Electrical Rack Well 3	1	LS	\$1,200.00	\$1,200.00	verbal quote from Jim Ollander
Conc slabs Well 3	100	SF	\$7.42	\$742.00	For 8" slab (ADOT 2010 const cost SR101L proj +6% inflation)
AB gravel Well 3	3	CY	\$106.00	\$318.00	under tank, elect rack & booster slab (ADOT includes DB)
44 gal bladder tank Well 3	2	EA	\$700.00	\$1,400.00	Vendor No Davis Bacon
5,000 gal tank Well 7	1	LS	\$3,780.00	\$3,780.00	Loomis Tank Centers. Delivered. Vendor. No Davis Bacon
Steel Tank Ring Well 7	40	LF	\$15.10	\$604.00	\$6.04/LF X 2.5 Davis Labor Smith Pipe/Steel Co Verbal Delivered
AB gravel Well 7	2.5	CY	\$106.00	\$265.00	under tank & elec rack (ADOT includes DB)
44 gal bladder tank Well 7	1	EA	\$700.00	\$700.00	Vendor No Davis Bacon
Facility piping & Plumbing Well 7	3	DAY	\$1,437.00	\$4,311.00	Equipment \$865/day, Labor \$572/day for pipefitter + Laborer Davis Bacon
New Materials	1	LS	\$2,500.00	\$2,500.00	33 LF above ground pipe, 10 LF below ground pipe, valves and fittings
Electrical Well 7	1	LS	\$2,500.00	\$2,500.00	verbal quote from Jim Ollander
Electrical Rack Well 7	1	LS	\$1,200.00	\$1,200.00	estimate
New 3 HP Booster	1	LS	\$2,611.00	\$2,611.00	estimate, extrapolated from 5 HP pump price
Horiz tank removal Well 7	1	LS	\$1,500.00	\$1,500.00	estimate
Chain link fence Well 7	38	LF	\$37.50	\$1,425.00	Extrapolated from Well Site #2 Quote X 1.5 DB wage
SUBTOTAL				\$46,473.00	
ATC application	1	LS	\$3,200.00	\$3,200.00	
Engineering	-	-	10%	\$4,647.30	
Administration & Legal Fees	-	-	5%	\$2,323.65	
Project Management & Inspections	-	-	10%	\$4,647.30	
Contingency	-	-	15%	\$6,970.95	
Sales Tax	-	-	4.60%	\$2,137.76	65% of tax rate to account only for taxed items
SUBTOTAL				\$70,399.96	

ITEM TWO REPLACE FIRE HYDRANTS

ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	COST	NOTES
Hydrant Replacement	22	EA	\$4,125.00	\$90,750.00	Locations per replacement plan \$1650 list price X 2.5 for DB labor
SUBTOTAL				\$90,750.00	
Administration & Legal Fees	-	-	5%	\$4,537.50	

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Project Management & Inspections	-	-	10%	\$9,075.00	
Contingency	-	-	15%	\$13,612.50	
Sales Tax	-	-	4.60%	\$4,174.50	65% of tax rate to account only for taxed items
SUBTOTAL				\$122,149.50	

ITEM THREE REPAIRS AT WELL 18

ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	COST	NOTES
Pressure Grouting existing storage tank due to settling	1710	CF	\$86.50	\$147,915.00	RS MEANS 2010
New 5000 gallon pressure tank	1	EA	\$24,740.00	\$24,740.00	

Well pump, motor and column piping	1	EA	\$35,000.00	\$35,000.00	Costs from D & M Well Services
SUBTOTAL				\$207,655.00	
Administration & Legal Fees	-	-	5%	\$10,382.75	
Project Management & Inspections	-	-	10%	\$20,765.50	65% of tax rate to account only for taxed items
Contingency	-	-	15%	\$31,148.25	
Sales Tax	-	-	4.60%	\$9,552.13	
SUBTOTAL				\$279,503.63	

NOTES

\$900 Flomatic 2011 list x 2.5 for DB wages
 \$1400 Flomatic 2011 list x 2.5 for DB wages
 \$1850 Flomatic 2011 list x 2.5 for DB wages

ITEM FOUR REPLACE BROKEN ISOLATION GATE VALVES

ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	COST	
Resilient Wedge Gate Valves 6"	3	EA	\$2,250.00	\$6,750.00	
Resilient Wedge Gate Valves 8"	1	EA	\$3,500.00	\$3,500.00	
Resilient Wedge Gate Valves 10"	1	EA	\$4,625.00	\$4,625.00	
SUBTOTAL				\$14,875.00	
Administration & Legal Fees	-	-	5%	\$743.75	65% of tax rate to account only for taxed items
Project Management & Inspections	-	-	10%	\$1,487.50	
Sales Tax	-	-	4.60%	\$684.25	
SUBTOTAL				\$17,790.50	

NOTES

\$36/LF installation cost x 1.5 for Davis Bacon
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ITEM FIVE REPLACE AND/OR UPGRADE DISTRIBUTION SERVICES				
ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	COST
1" Services along Justin replace exist poly line	56	EA	\$54.00	\$3,024.00
1" services on Ford replace exist 1" services	80	EA	\$54.00	\$4,320.00
1" in alleys & esmts north of Treasure Rd, South of Christmas Tree replace exist 1" services	60	EA	\$54.00	\$3,240.00
1" in Treasure Rd replace exist 1" services	26	EA	\$54.00	\$1,404.00
SUBTOTAL				\$11,988.00
Surveying	1	LS	\$3,500.00	\$3,500.00
Engineering	-	-	10%	\$1,198.80
Administration & Legal Fees	-	-	5%	\$599.40
Project Management & Inspections	-	-	10%	\$1,198.80
Contingency	-	-	15%	\$1,798.20
Sales Tax	-	-	4.60%	\$551.45
			SUBTOTAL	\$20,834.65

65% of tax rate to account only for taxed items

GRAND TOTAL **\$510,678.24**