

SUNRISE ENGINEERING, INC.
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 Engineer's Opinion of Probable Cost

HILDALE PROJECT FUNDING

Hildale City

25-Aug-21

MCG/bcw

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
MAXELL CANYON					
1	Mobilization	10%	LS	\$ 114,100.00	\$ 114,100.00
2	Construction Staking	1	LS	\$ 10,000.00	\$ 10,000.00
3	Materials Sampling & Testing	1	LS	\$ 15,000.00	\$ 15,000.00
4	Traffic Control	1	LS	\$ 15,000.00	\$ 15,000.00
5	6-inch Fused HDPE	15,840	LF	\$ 45.00	\$ 712,800.00
6	Roadway Restoration	95,000	SF	\$ 4.00	\$ 380,000.00
7	Misc. Site Plumbing	1	LS	\$ 3,100.00	\$ 3,100.00
8	Air Release Valves	1	EA	\$ 5,200.00	\$ 5,200.00
SUBTOTAL					\$ 1,255,000.00
				CONTINGENCY 15%	\$ 188,000.00
PROJECT TOTAL					\$ 1,443,000.00
WATER TREATMENT PLANT					
1	Mobilization	10%	LS	\$ 292,800.00	\$ 292,800.00
2	Construction Staking	1	LS	\$ 8,000.00	\$ 8,000.00
3	Materials Sampling & Testing	1	LS	\$ 25,000.00	\$ 25,000.00
4	Pilot Study	1	LS	\$ 90,000.00	\$ 90,000.00
5	Earthwork	1	LS	\$ 17,000.00	\$ 17,000.00
6	Traffic Control	1	LS	\$ 10,000.00	\$ 10,000.00
7	Footings/Foundation/Floor	1	LS	\$ 40,000.00	\$ 40,000.00
8	Building	1	LS	\$ 90,000.00	\$ 90,000.00
9	Electrical Systems	1	LS	\$ 100,000.00	\$ 100,000.00
10	12-inch Site Piping	500	LF	\$ 200.00	\$ 100,000.00
11	16-inch Piping	250	LF	\$ 300.00	\$ 75,000.00
12	Steel Clear Well Tank	1	LS	\$ 115,000.00	\$ 115,000.00
13	Generator	2	EA	\$ 115,000.00	\$ 230,000.00
14	Treatment Plant Equipment & Installation	1	LS	\$ 1,800,000.00	\$ 1,800,000.00
15	Site Paving/Repaving	10,000	SF	\$ 5.00	\$ 50,000.00
16	Misc. Site Plumbing	1	LS	\$ 22,000.00	\$ 22,000.00
17	Air Release Valves	6	EA	\$ 5,200.00	\$ 31,200.00
18	Mechanical Systems	1	LS	\$ 50,000.00	\$ 50,000.00
19	SCADA & Controls	1	LS	\$ 75,000.00	\$ 75,000.00
SUBTOTAL					\$ 3,221,000.00
				CONTINGENCY 15%	\$ 483,000.00
PROJECT TOTAL					\$ 3,704,000.00
NEW WELLS					
1	Mobilization	10%	LS	\$ 88,100.00	\$ 88,100.00
2	Construction Staking	1	LS	\$ 2,000.00	\$ 2,000.00
3	Materials Sampling & Testing	1	LS	\$ 15,000.00	\$ 15,000.00
4	Vertical Well- Deep 18"	1	LS	\$ 385,000.00	\$ 385,000.00
5	Vertical Well- Shallow 18"	1	LS	\$ 320,000.00	\$ 320,000.00
6	Site Piping	100	LF	\$ 75.00	\$ 7,500.00
7	Misc Connections	8	EA	\$ 315.00	\$ 2,520.00
8	Misc. Site Plumbing	1	LS	\$ 7,700.00	\$ 7,700.00
9	Air Release Valves	4	EA	\$ 5,200.00	\$ 20,800.00
10	Well Site Vault	1	EA	\$ 72,500.00	\$ 72,500.00
11	Metering Manhole	1	EA	\$ 9,000.00	\$ 9,000.00
12	Discharge/Drain Apron	1	EA	\$ 8,500.00	\$ 8,500.00
13	Well Site Electrical	1	LS	\$ 30,000.00	\$ 30,000.00
SUBTOTAL					\$ 969,000.00
				CONTINGENCY 15%	\$ 145,000.00
PROJECT TOTAL					\$ 1,114,000.00

WATER SYSTEM IMPROVEMENTS					
1	Mobilization	10%	LS	\$ 639,100.00	\$ 639,100.00
2	Construction Staking	1	LS	\$ 50,000.00	\$ 50,000.00
3	Materials Sampling & Testing	1	LS	\$ 50,000.00	\$ 50,000.00
4	Traffic Control	1	LS	\$ 25,000.00	\$ 25,000.00
5	Subsurface Investigation	80	HR	\$ 250.00	\$ 20,000.00
6	8-inch Piping (For Hydrants)	2,930	LF	\$ 55.00	\$ 161,150.00
7	Fire Hydrants	78	EA	\$ 7,500.00	\$ 585,000.00
8	6-inch Piping (For Hydrants)	2,112	LF	\$ 45.00	\$ 95,040.00
9	10-inch Piping (Saddle Tank)	800	LF	\$ 70.00	\$ 56,000.00
10	10-inch Piping (For 1 MG Tank)	2,500	LF	\$ 70.00	\$ 175,000.00
11	12-inch Piping (For 1MG Tank)	2,500	LF	\$ 80.00	\$ 200,000.00
12	Booster Pump Station	1	LS	\$ 300,000.00	\$ 300,000.00
13	Roadway Restoration	35,052	SF	\$ 5.00	\$ 175,260.00
14	6" Gate Valves	80	EA	\$ 2,500.00	\$ 200,000.00
15	8" Gate Valves	25	EA	\$ 3,000.00	\$ 75,000.00
16	10" Gate Valves	2	EA	\$ 4,500.00	\$ 9,000.00
17	Blowoffs	2	EA	\$ 3,750.00	\$ 7,500.00
18	PRV	2	EA	\$ 5,000.00	\$ 10,000.00
19	PRV Vault	2	EA	\$ 26,000.00	\$ 52,000.00
20	300K Gallon Concrete Storage Tank & Appurtenances	1	LS	\$ 1,000,000.00	\$ 1,000,000.00
21	1 MG Concrete Storage Tank & Appurtenances	1	LS	\$ 3,000,000.00	\$ 3,000,000.00
22	Chain Link Fence & Gate	3,000	LF	\$ 40.00	\$ 120,000.00
23	Tank Site Appurtenances	1	LS	\$ 25,000.00	\$ 25,000.00
				SUBTOTAL	\$ 7,030,000.00
				CONTINGENCY	15%
				PROJECT TOTAL	\$ 8,085,000.00
WATER CANYON VERTICAL WELL					
1	Mobilization	10%	LS	\$ 162,300.00	\$ 162,300.00
2	Constuction Staking	1	LS	\$ 10,000.00	\$ 10,000.00
3	Material Sampling & Testing	1	LS	\$ 15,000.00	\$ 15,000.00
4	Traffic Control	1	LS	\$ 8,000.00	\$ 8,000.00
5	8-inch DI Piping	7,500	LF	\$ 102.00	\$ 765,000.00
6	Vertical Well- Deep 18"	1	LS	\$ 385,000.00	\$ 385,000.00
7	Generator	1	EA	\$ 115,000.00	\$ 115,000.00
8	Repaving	2,500	LF	\$ 70.00	\$ 175,000.00
9	Misc. Site Plumbing	1	LS	\$ 3,000.00	\$ 3,000.00
10	Air Release Valves	1	EA	\$ 5,200.00	\$ 5,200.00
11	Furnish & Install Pump for Development & Test	1	LS	\$ 42,000.00	\$ 42,000.00
12	Development Pumping	120	HR	\$ 500.00	\$ 60,000.00
13	Test Pumping	48	HR	\$ 500.00	\$ 24,000.00
14	Sampling & Testing for Culinary Water Quality	1	LS	\$ 500.00	\$ 500.00
15	Well Disinfecting & Capping	1	LS	\$ 3,000.00	\$ 3,000.00
16	Well Driller's Report Preparing	1	LS	\$ 600.00	\$ 600.00
17	Geophysical Well Log	1	LS	\$ 12,000.00	\$ 12,000.00
				SUBTOTAL	\$ 1,786,000.00
				CONTINGENCY	15%
				PROJECT TOTAL	\$ 2,054,000.00
				COMPLETE PROJECT TOTAL	\$ 16,400,000.00

INCIDENTALS						
MAXELL CANYON						
1	Pre-Construction Engineering	0.7%	LS	\$ 125,000.00	\$	125,000.00
	Funding Procurement/Acquisition					
	Engineering Design					
2	Special Engineering Services	0.1%	HR	\$ 20,000.00	\$	20,000.00
	Design Survey					
	Geotechnical Report					
3	Construction Engineering Services	0.6%	HR	\$ 113,000.00	\$	113,000.00
4	Misc. Administration, Legal and Bonding	0.1%	HR	\$ 10,000.00	\$	10,000.00
				SUBTOTAL		\$ 268,000.00
WATER TREATMENT PLANT						
1	Pre-Construction Engineering	1.1%	LS	\$ 215,000.00	\$	215,000.00
	Funding Procurement/Acquisition					
	Engineering Design					
2	Special Engineering Services	0.1%	HR	\$ 15,000.00	\$	15,000.00
	Design Survey					
	Geotechnical Report					
3	Construction Engineering Services	1.0%	HR	\$ 195,000.00	\$	195,000.00
4	Misc. Administration, Legal and Bonding	0.1%	HR	\$ 20,000.00	\$	20,000.00
				SUBTOTAL		\$ 445,000.00
NEW WELLS						
1	Pre-Construction Engineering	0.4%	LS	\$ 66,000.00	\$	66,000.00
	Funding Procurement/Acquisition					
	Engineering Design					
2	Special Engineering Services	0.0%	HR	\$ 5,000.00	\$	5,000.00
	Design Survey					
	Geotechnical Report					
3	Construction Engineering Services	0.3%	HR	\$ 60,000.00	\$	60,000.00
4	Misc. Administration, Legal and Bonding	0.0%	HR	\$ 5,000.00	\$	5,000.00
				SUBTOTAL		\$ 136,000.00
WATER SYSTEM IMPROVEMENTS						
1	Pre-Construction Engineering	2.2%	LS	\$ 416,000.00	\$	416,000.00
	Funding Procurement/Acquisition					
	Engineering Design					
2	Special Engineering Services	0.4%	HR	\$ 75,000.00	\$	75,000.00
	Design Survey					
	Geotechnical Report					
3	Construction Engineering Services	2.0%	HR	\$ 375,000.00	\$	375,000.00
4	Misc. Administration, Legal and Bonding	0.3%	HR	\$ 50,000.00	\$	50,000.00
				SUBTOTAL		\$ 916,000.00
WATER CANYON VERTICAL WELL						
1	Pre-Construction Engineering	1.4%	LS	\$ 270,000.00	\$	270,000.00
	Funding Procurement/Acquisition					
	Engineering Design					
2	Special Engineering Services	0.1%	HR	\$ 20,000.00	\$	20,000.00
	Design Survey					
	Geotechnical Report					
3	Construction Engineering Services	1.3%	HR	\$ 240,000.00	\$	240,000.00
4	Misc. Administration, Legal and Bonding	0.1%	HR	\$ 10,000.00	\$	10,000.00
				SUBTOTAL		\$ 540,000.00
				INCIDENTALS SUBTOTAL		\$ 2,305,000.00
				TOTAL PROJECT COST		\$ 18,705,000.00

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs.