

ATTACHMENT K

Cost Estimate

Cougar Creek Water System - System Improvements

Engineer's Estimate of Probable Construction Costs

Item No.	Item Description	Item Unit	Item Quantity	Unit price	Quantity Price
MOBILIZATION & ESC					
1	MOBILIZATION	LS	1	\$ 310,000.00	\$ 310,000.00
2	EROSION & SEDIMENT CONTROL	LS	1	\$ 40,000.00	\$ 40,000.00
EARTHWORK					
3	CLEARING AND GRUBBING	LS	1	\$ 20,000.00	\$ 20,000.00
4	EXCAVATION INCL. HAUL	CY	100	\$ 55.00	\$ 5,500.00
5	UNSUITABLE MATERIAL EXCAVATION	CY	50	\$ 42.00	\$ 2,100.00
6	TREE REMOVAL	EA	10	\$ 1,050.00	\$ 10,500.00
7	LAND IMPROVEMENT	EA	2	\$ 50,000.00	\$ 100,000.00
UTILITIES					
8	WATER MAIN SDR11 HDPE PIPE 8 IN. DIAM.	LF	2910	\$ 75.00	\$ 218,250.00
9	HYDRAULIC VALVES DUCTILE IRON 8 IN DIAM.	LF	9	\$ 4,500.00	\$ 40,500.00
10	WATER MAIN SDR11 HDPE PIPE 6 IN. DIAM	LF	9421	\$ 40.00	\$ 376,840.00
11	WATER MAIN DUCTILE IRON FITTINGS 6 IN DIAM.	EA	41	\$ 1,500.00	\$ 61,500.00
12	HYDRAULIC VALVES DUCTILE IRON 6 IN DIAM	EA	2	\$ 2,800.00	\$ 5,600.00
13	LOOPING WATER MAIN SDR11 HDPE PIPE 6 IN. DIAM.	LF	5486	\$ 40.00	\$ 219,440.00
14	LOOPING WATER MAIN FITTINGS DUCTILE IRON 6 IN DIAM.	EA	2	\$ 1,500.00	\$ 3,000.00
15	LOOPING HYDRAULIC VALVES DUCTILE IRON 6 IN DIAM.	EA	2	\$ 2,800.00	\$ 5,600.00
16	HYDRAULIC VALVES DUCTILE IRON 2.5 IN DIAM.	EA	1	\$ 1,200.00	\$ 1,200.00
17	AIR/VACUUM RELIEF VALVE	EA	3	\$ 3,000.00	\$ 9,000.00
18	TAP SADDLE ON HDPE PIPE	EA	108	\$ 515.00	\$ 55,620.00
19	6" FIRE HYDRANT ASSEMBLY	EA	16	\$ 5,000.00	\$ 80,000.00
20	WATER STORAGE 120,000 GALLON RESERVOIR	LS	1	\$ 600,000.00	\$ 600,000.00

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		WELL											
21	CONDUCTOR CASING, 32-IN X 3/8 IN ASTM A53 STL		40	VF	\$	350.00	\$	14,000.00					
22	WELL CASING, 14-IN X 3/8 IN ASTM A53		200	VF	\$	45.00	\$	9,000.00					
23	CENTRALIZERS		7	EA	\$	300.00	\$	2,100.00					
24	WELL SCREENS		20	VF	\$	100.00	\$	2,000.00					
25	SAND-CEMENT GROUT		7	CY	\$	300.00	\$	2,100.00					
26	GRAVEL PACKING		20	CY	\$	50.00	\$	1,000.00					
27	FINE SAND SEAL		15	CY	\$	50.00	\$	750.00					
28	CEMENT PUMP		1	EA	\$	2,000.00	\$	2,000.00					
29	DRILLING FLUID/MUD PUMP		1	EA	\$	2,000.00	\$	2,000.00					
30	DRILLING FLUID/MUD		10000	GAL	\$	1.00	\$	10,000.00					
31	DRILLING FLUID CONTROL SYSTEM		1	LS	\$	2,000.00	\$	2,000.00					
32	TEST PUMP SYSTEM		1	LS	\$	5,000.00	\$	5,000.00					
33	PUMP TESTING		48	HR	\$	150.00	\$	7,200.00					
34	DRILLING		200	VF	\$	135.00	\$	27,000.00					
35	6" TEMPORARY PILOT PIPE W SHAFT		200	LF	\$	30.00	\$	6,000.00					
36	PUMP TEST DISPOSAL PIT		11	CY	\$	70.00	\$	770.00					
37	TEST DISCHARGE PIPE 90 BENDS		3	EA	\$	1,000.00	\$	3,000.00					
38	TEST DISCHARGE FLOW METER		1	EA	\$	1,000.00	\$	1,000.00					
39	TEST DISCHARGE 6" PIPE		200	LF	\$	415.00	\$	83,000.00					
40	TEST DISCHARGE GATE VALVES		1	EA	\$	600.00	\$	600.00					
41	TEST DISCHARGE CONNECTION TO WELL		1	EA	\$	1,200.00	\$	1,200.00					
42	WELL HOUSE STRUCTURE		1	EA	\$	15,000.00	\$	15,000.00					
43	SUBMERSIBLE WELL PUMP		1	EA	\$	5,000.00	\$	5,000.00					
44	BACKUP GENERATOR		1	EA	\$	10,000.00	\$	10,000.00					
45	AUTOMATIC TRANSFER SWITCH		1	EA	\$	5,000.00	\$	5,000.00					
46	WELL POWER DISCONNECT SWITCH		1	EA	\$	5,000.00	\$	5,000.00					
47	BREAKER PANEL		1	EA	\$	15,000.00	\$	15,000.00					
48	WELL CONTROLLER		1	EA	\$	9,000.00	\$	9,000.00					
49	VARIABLE FREQUENCY DRIVE		1	EA	\$	8,000.00	\$	8,000.00					
50	WELL HOUSE POWER SUPPLY		1	EA	\$	20,000.00	\$	20,000.00					
51	ELECTRICAL POWER SERVICE		1	EA	\$	30,000.00	\$	30,000.00					
52	CONCRETE FOUNDATION PAD		1	EA	\$	8,000.00	\$	8,000.00					

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CONCRETE AND SURFACING						
53	REPLACE ASPHALT SURFACING	CY	148	\$	220.00	\$ 32,560.00
54	REPLACE CRUSHED SURFACING	CY	182	\$	70.00	\$ 12,740.00
55	CONCRETE THRUST BLOCKS	EA	14	\$	1,000.00	\$ 14,000.00
MISCELLANEOUS						
56	SEEDBED PREPARATION	AC	0.24	\$	5,000.00	\$ 1,200.00
57	SEEDING	AC	0.24	\$	2,550.00	\$ 612.00
58	MULCHING	AC	0.24	\$	2,550.00	\$ 612.00
59	MULCH ANCHORING	AC	0.24	\$	2,550.00	\$ 612.00
60	FERTILIZING	AC	0.24	\$	2,550.00	\$ 612.00
61	SUBGRADE SEPARATION GEOTEXTILE	SY	986	\$	5.40	\$ 5,324.40
62	DEPARTMENT OF STATE LANDS EASEMENT	SQFT	11000	\$	3.00	\$ 33,000.00
63	SURVEY	EA	1	\$	10,000.00	\$ 10,000.00
64	ADDITIONAL ENGINEERING DESIGN	EA	1	\$	187,000.00	\$ 187,000.00

	SUB TOTAL	\$	2,774,642.40
	Escalation Estimate 4% to 2026	\$	110,985.70
	10% Estimation Contingency	\$	277,464.24
	CONSTRUCTION TOTAL	\$	3,163,092.34