

Opinion of Probable Construction Cost

Client: Alleghany County Water District	Date: 12/7/2022
Engineer: Coleman Engineering	Prepared By: SLK
Project: Ram Spring Improvement Project	Checked By: CRC
Project #: ALLE22-001	

No.	Item	Quantity	Unit	Unit Cost	Cost
General					
1	Mobilization / Demobilization	10%	%	\$70,000	\$70,000
2	SWPPP/ Erosion Control	2%	%	\$20,000	\$20,000
Demolition					
3	Clear, Scalp, Grub and Re-grade (Spring Field, Storage Bldg, Wetland Rehab)	1	LS	\$16,900	\$17,000
4	Remove and dispose of chain link fence	1	LS	\$6,500	\$7,000
5	Remove and dispose of weed-barrier fabric inside fenced area	1	LS	\$5,000	\$5,000
6	Remove and dispose of trees, saplings, and underbrush	1	LS	\$11,700	\$12,000
7	Remove and dispose of ball valves, PVC collector pipes and manifold pipes	1	LS	\$7,500	\$8,000
8	Remove and dispose of generator	1	LS	\$5,000	\$5,000
9	Remove and dispose of pumps and associated equipment	1	LS	\$5,000	\$5,000
Civil Improvements					
10	Earthwork: Excavation, Rough Grading, Finish Grading	1	LS	\$21,000	\$21,000
11	Install Curtain Drains	250	LF	\$125	\$32,000
12	4" PVC Drainage Piping from Curtain Drains	90	LF	\$14	\$2,000
13	Place Weed-barrier Fabric, Crush Rock, and Native Soil	1	LS	\$7,500	\$8,000
14	Install chain link site fence	450	LF	\$86	\$39,000
15	Install chain link 3' gate	4	EA	\$528	\$3,000
16	Install chain link 6' gate, 12' Opening	1	EA	\$1,320	\$2,000
17	Install unions, ball valves, PVC collector pipes and manifold pipes	1	LS	\$15,000	\$15,000
18	Construct valve boxes, sampling station, gate valve	6	EA	\$2,000	\$12,000
19	Construct concrete pad for new roof cover over collector tank	2	CY	\$2,000	\$5,000
20	Construct new collector tank overflow, drain, and outlet piping	1	LS	\$5,000	\$5,000
21	Construct concrete gutter with steel inlet grate at storage building driveway	32	LF	\$600	\$20,000
22	Construct Bollards	2	EA	\$1,050	\$3,000
23	Construct AC paved driveway to the new storage building	485	SF	\$50	\$25,000
Mechanical/Electrical					
24	Pump House Mechanical Improvements	1	LS	\$80,415	\$81,000
25	Pump System Electrical Improvements	1	LS	\$24,300	\$25,000
26	Pump House Electrical	1	LS	\$16,000	\$16,000
27	Storage Building Electrical	1	LS	\$5,000	\$5,000
28	Storage Tank Electrical	1	LS	\$5,000	\$5,000
29	Procure and Install Propane Generator	1	LS	\$50,000	\$50,000
Architectural					
30	Storage Building with sample lab (12'x16')	1	LS	\$65,000	\$65,000
31	Roof over exising collector tank (12'x12')	1	LS	\$20,000	\$20,000
32	Improvements to existing pump house or replacement	1	LS	\$35,000	\$35,000
Off-site Improvements					
33	Residential service meter replacement	52	EA	\$1,500	\$78,000

Basis for Cost Projection:

- Pre-Design
- 50% Draft Design
- 90% Draft Design
- Final Design

SUB-TOTAL ESTIMATED COST =	\$721,000
90% DESIGN LEVEL CONTINGENCY (20%) =	\$145,000
Construction Cost Opinion =	\$866,000
100% Design Engineering =	\$320,286
Enviromental Consulting pre- and during construction =	\$22,323
Engineering Services During Construction =	\$185,262
TOTAL ESTIMATED PROJECT COST =	\$1,394,000