

Job No. 02-06, WKK-14  
Construct Kilauea 466' Tank, 1.0 MG

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Item No.	Estimated Quantity	Units	Description	Unit Estimate	Total Estimate
1	1	LS	Mobilization & Demobilization (Not to exceed 6% of the sum of all items excluding Lump Sum Offer of this item)		\$ 808,752.00
2	1	LS	Best Management Plan, Erosion Control Measures & NPDES Appendix C implementation	\$ 90,000.00	\$ 90,000.00
3	1	LS	Remove & dispose existing AC pavement, base course, concrete swale, inlets, vaults & other site features as necessary.	\$ 35,000.00	\$ 35,000.00
4	1	LS	Remove & dispose existing DI water lines, drain lines & other appurtenances as necessary.	\$ 20,000.00	\$ 20,000.00
5	1	LS	Demolish, remove & dispose existing 100,000 gallon tank, foundation & all appurtenances.	\$ 400,000.00	\$ 400,000.00
6	10	EA	10,000 gallon temporary water storage tanks, including fittings, connections, testing, all appurtenances & removal in Phase III.	\$ 55,000.00	\$ 550,000.00
7	145	LF	Waterline "A", 8-inch DI pipe for temporary water storage tanks, including all valves, fittings, concrete blocks, connection to existing 12-inch DI water main, all appurtenances & removal after Phase III.	\$ 800.00	\$ 116,000.00
8	150	LF	Drain Line "A", 6-inch HDPE pipe for temporary water storage tanks, including all valves, fittings, concrete blocks, connection to Shallow Drain Manhole, all appurtenances & removal after Phase III.	\$ 200.00	\$ 30,000.00
9	73	LF	Drain Line "B", 6-inch HDPE pipe for temporary water storage tanks, including all valves, fittings, concrete blocks, all appurtenances & removal after Phase III.	\$ 200.00	\$ 14,600.00
10	1	LS	Shallow Drain Manhole, including excavation & connections to existing 12-inch DI drain line.	\$ 40,000.00	\$ 40,000.00

Job No. 02-06, WKK-14  
Construct Kilauea 466' Tank, 1.0 MG

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Item No.	Estimated Quantity	Units	Description	Unit Estimate	Total Estimate
11	1	LS	Temporary tank level transmitter, including transmitter, ¼-inch copper tubing, ¾-inch copper tubing, fittings, valves, connections, all appurtenances & removal after Phase III.	\$ 35,000.00	\$ 35,000.00
12	260	CY	Grading Plan Phase I, site excavation, including clearing and grubbing, demolition, and hauling and disposal of excess material.	\$ 200.00	\$ 52,000.00
13	2,830	CY	Grading Plan Phase II, site excavation, including clearing and grubbing, demolition, and hauling and disposal of excess material.	\$ 200.00	\$ 566,000.00
14	1,870	CY	Grading Plan Phase III, site embankment, including hauling and compaction.	\$ 300.00	\$ 561,000.00
15	23	LF	Influent/effluent line, 12-inch DI pipe, including fittings, valves, supports, concrete blocks, connections & all appurtenances.	\$ 1,200.00	\$ 27,600.00
16	1	LS	Air Relief Valve (Inf/Eff line) including ARV, 1-inch copper tubing, fittings, valves, connections & all appurtenances.	\$ 9,000.00	\$ 9,000.00
17	18	LF	Water stubout for future well pump, 12-inch DI pipe, including fittings, valves, concrete blocks, connections & all appurtenances.	\$ 1,200.00	\$ 21,600.00
18	7	LF	Tank washout line, 12-inch DI pipe, including fittings, valves, concrete blocks, connections & all appurtenances.	\$ 1,200.00	\$ 8,400.00
19	8	LF	Tank overflow line, 12-inch DI pipe, including fittings, valves, concrete blocks, connections & all appurtenances.	\$ 1,200.00	\$ 9,600.00
20	325	LF	Perimeter drain, 6-inch perforated HDPE pipe, including 4-inch observation ports, fittings, connections & all appurtenances	\$ 400.00	\$ 130,000.00
21	8	LF	Drain Line "C", 6-inch HDPE pipe, including fittings, connections & all appurtenances.	\$ 500.00	\$ 4,000.00

Job No. 02-06, WKK-14  
Construct Kilauea 466' Tank, 1.0 MG

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Item No.	Estimated Quantity	Units	Description	Unit Estimate	Total Estimate
22	10	LF	Drain Line "D", 6-inch HDPE pipe, including fittings, connections & all appurtenances.	\$ 500.00	\$ 5,000.00
23	1	LS	Type G4 Drain Inlet, including grate & appurtenances.	\$ 50,000.00	\$ 50,000.00
24	1	LS	Water sampling station, including ¾-inch copper tubing, including fittings, valves, connections & all appurtenances.	\$ 3,000.00	\$ 3,000.00
25	1	LS	Water level transmitter, including transmitter, ¼-inch copper tubing, ¾-inch copper tubing, fittings, valves, connections & all appurtenances.	\$ 35,000.00	\$ 35,000.00
26	620	LF	Retrofit existing 6-foot high chain-link fence and gate with extension arm and three strands of barbed wire and all appurtenances, in place complete.	\$ 100.00	\$ 62,000.00
27	4,000	SF	Concrete Perimeter Road, including 6-inch thick PCC pavement (650 Flex with structural fibers), 6-inch aggregate base course, 6-inch select borrow subbase, compaction, testing, in-place complete	\$ 60.00	\$ 240,000.00
28	830	SF	Concrete "V" Swale, including 6-inch thick PCC (650 Flex with structural fibers), 6-inch thick aggregate base course, 6-inch thick select borrow, in place complete.	\$ 60.00	\$ 49,800.00
29	8,560	SF	Ground Cover, including, 3-inch thick 1-1/2-inch course aggregate, geotextile fabric & all appurtenances, in-place complete	\$ 20.00	\$ 171,200.00
30	2,170	SF	Ground Cover, including, 12-inch thick rip-rap, geotextile fabric & all appurtenances, in-place complete	\$ 20.00	\$ 43,400.00
31	1	LS	1.0 Million Gallon reinforced concrete reservoir tank, including all appurtenances, in place complete.	\$ 9,000,000.00	\$ 9,000,000.00

Job No. 02-06, WKK-14  
Construct Kilauea 466' Tank, 1.0 MG

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST

Item No.	Estimated Quantity	Units	Description	Unit Estimate	Total Estimate
32	1	LS	Chlorination and flushing of water system, including removal of temporary risers and incidental work, NPDES Appendix F implementation, all in accordance with the specifications.	\$ 550,000.00	\$ 550,000.00
33	1	LS	Furnish and install electrical equipment, and wiring, including but not limited to providing trenching and backfill, pullboxes power, control and instrumentation ducts, cables, junction boxes, connections to power control and instrumentation devices, painting testing, and all appurtenant electrical work in place complete and in accordance with the plans and specifications.	\$ 300,000.00	\$ 300,000.00
34	1	LS	SCADA system, including but not limited to software programming of existing RTU; modifications to existing master SCADA; and all appurtenant SCADA work; in place complete, and accordance with the plans and specifications, ready for operation.	\$ 250,000.00	\$ 250,000.00
<b>TOTAL SUM OFFER (Items 1 to 34 inclusive)</b>					<b>\$ 14,287,952.00</b>