

FAC 8316 SEWAGE LIFT STATION

FY22 SUC: \$7.84 KG

Source: Calculated using R.S. Means CostWorks 2021 Qtr 3 component prices

FAC 8316 SEWAGE LIFT STATION

SUC \$7.84

Release 2021 Qtr 3
Zip Code Prefix 222
Type MR

UM KG
Design Life 25
Average Size 936.0

Adjusted Occurences are the occurrences remaining after subtracting Repair/Replacement Overlaps. Overlap reduction removes a repair when it occurs the same year as a replacement.

Description	Frequency	Qty Unit	Total In-House	Total Incl OP	Design Life/Frequency	Occurrences in Design Life	Adjusted Occurrences	Life Cost	Adjusted Cost			
Unclog main drain pipe & fittings, cast iron	10	2.00 Ea.	\$92.33	\$115.47	2.5000	2	2	\$230.95	\$230.95			
Unclog 4" - 12" diameter main drain per L.F.	10	4.00 L.F.	\$15.16	\$18.96	2.5000	2	2	\$37.93	\$37.93			
Insp/chk pump/mtr oper, lub, chk align, rainwater sump pump	1	2.00 Ea.	\$23.90	\$29.89	25.0000	25	25	\$747.18	\$747.18			
Replace rainwater sump pump / motor assembly	20	2.00 Ea.	\$1,264.86	\$1,494.18	1.2500	1	1	\$1,494.18	\$1,494.18			
Repack gate valve gland, 2" - 3" valves	10	4.00 Ea.	\$148.15	\$177.24	2.5000	2	2	\$354.47	\$354.47			
Replace gate valve, partial, 2" - 3" valves	20	4.00 Ea.	\$5,229.86	\$6,006.89	1.2500	1	1	\$6,006.89	\$6,006.89			
Repack gate valve gland, 8" - 12" valves	5	4.00 Ea.	\$680.57	\$826.99	5.0000	5	5	\$4,134.93	\$4,134.93			
Repair failed breaker, molded case, 600 V, 3 pole	10	4.00 Ea.	\$1,488.27	\$1,770.52	2.5000	2	2	\$3,541.05	\$3,541.05			
Maintenance and inspection circuit breaker, molded case, 600 V, 3 pole	0.33	4.00 Ea.	\$129.55	\$162.31	75.7576	75	75	\$12,173.41	\$12,173.41			
Maintenance and repair safety switch, 3 pole safety switch, heavy duty	8	4.00 Ea.	\$162.58	\$203.69	3.1250	3	3	\$611.06	\$611.06			
Maintenance and repair voice/data outlet	10	1.00 Ea.	\$51.29	\$64.06	2.5000	2	2	\$128.12	\$128.12			
Remove and replace 50 HP pump motor	25	8.00 Ea.	\$52,776.35	\$60,394.01	1.0000	1	1	\$60,394.01	\$60,394.01			
Remove and replace steel guard rail	7	14.00 L.F.	\$938.65	\$1,086.36	3.5714	3	3	\$3,259.07	\$3,259.07			
Raise MH or catch basin frame and cover	10	1.00 Ea.	\$369.42	\$451.23	2.5000	2	2	\$902.46	\$902.46			
			\$63,370.95	\$72,801.79					MR Subtotal	\$94,015.69		
											MR Per Year	\$3,760.63
											PM Total	\$3,575.01
											Subtotal	\$7,335.64
											Total Per Unit	\$7.84

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Design Life 25

Type PM

Average Size 936.0

Description	Qty	Labor Hours	Bare Mat	Bare Labor	Bare Equip	Bare Total	Total In-House	Total Incl OP
Switchboard, annualized	2.00	1.40	\$7.98	\$92.20	\$0.00	\$100.18	\$128.64	\$157.50
Motor control center, over 400 A, annualized	4.00	1.56	\$92.79	\$103.60	\$0.00	\$196.39	\$236.75	\$281.75
Manual slide gate, annualized	1.00	1.52	\$11.25	\$73.52	\$0.00	\$84.77	\$107.95	\$131.70
Sewage lift, over 1 H.P., annualized	8.00	11.65	\$294.00	\$564.40	\$0.00	\$858.40	\$1,057.12	\$1,270.54
Cathodic protection system, annualized	2.00	2.92	\$38.66	\$158.10	\$0.00	\$196.76	\$248.06	\$301.29
Vertical lift, over 1 H.P., annualized	8.00	11.65	\$423.36	\$564.40	\$0.00	\$987.76	\$1,199.42	\$1,432.24
						\$2,424.27	\$2,977.94	\$3,575.01

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Modeled Component List
CostWorks Release 2021 Qtr 3

D20 Plumbing	
Rainwater Sump Pump	2.0 Ea.
D30 HVAC	
Valves	4.0 Ea.
G20 Site Improvements	
Gate, Manual slide, annualized	1.0 Each
G30 Site Mechanical Utilities	
Sewage Lift, annualized	8.0 Each
Vertical Lift, annualized	8.0 Each
G40 Site Electrical Utilities	
Cathodic Protection, annualized	2.0 Each

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Sustainment by Year
CostWorks Release 2021 Qtr 3

