

FAC 8315 Septic Lagoon and Settlement Pond

RUC: \$0.65 GA

Source: Marshall & Swift adjusted for area and inflation using Marshall & Swift Section 99; projected to FY-09 using Green Book Table 5-6 MCON
In V12, Tri-Service and USACE PAX Newsletter values were updated while all other values were inflated only.

Calculation follows:

SUC: \$0.0019 GA

Source: Cost Works model, inflated to FY-09 using Green Book Table 5-6 (O&M less DHP)
In V12, values were inflated only.

Calculation follows:

FAC 8315 Lagoon and Settlement Ponds

Assumed to be rainwater runoff settlement as open sewage pits are not permitted.

Marshall and Swift 66/8

Collection Pond, Average Value = \$43.25 SF

Assumed Nominal Depth 10 Ft

Volume in GA = 7.5 GA/CF 75

Cost/GA \$0.58

Unit In Place Cost Multiplier 1.11

Subtotal 0.6401

Local Multiplier 1.04 Average of b and c

Total 0.665704 FY-07

			FY-08	FY-07
FY-08 Inflator	1.023018	FY-08	100	97.75

FY-08 0.681027

FAC 8315 Lagoon and Settlement Pond
CostWorks 2008 Quarter 2 -

Design Life= 24
Average GA = 562500

Terminal Cutoff is the removal of a single task occurrence if that task occurs within 10% of the end of the design life and if the frequency of the task exceeds 20% of the design life. This prevents scheduling major work near the end of the design life

Description	Frequency	Qty	Unit	Total Incl. O&P	Zip Code Prefix	Type	Release	Adjusted Occurrence s	lifecost	Terminal Cutoff
Minor chain link fence repairs (per 10 L.F.)	1	1.000	Ea.	24.79	200	FMR	2008 Qtr 2	24	594.96	\$ 594.96
Replace fence fabric, 6' high, 9 ga. (per 10 L.F.)	10	5.000	Ea.	926.90	200	FMR	2008 Qtr 2	2	1853.8	\$ 1,853.80
Replace double swing gates, 6' high, 20' opng.	5	0.500	Opng.	881.94	200	FMR	2008 Qtr 2	4	3527.74	\$ 3,527.74
Maintenance and repair motor starter, up to 600 V	5	1.000	Ea.	207.50	200	FMR	2008 Qtr 2	4	830	\$ 830.00
Maintenance and inspection motor starter, up to 600 V	0.5	1.000	Ea.	47.85	200	FMR	2008 Qtr 2	48	2296.8	\$ 2,296.80
Replace starter motor starter, up to 600 V	18	1.000	Ea.	630.41	200	FMR	2008 Qtr 2	1	630.41	\$ 630.41
				\$2,719.39						

MR Subtotal \$ 9,733.71

Note: A mean for this new (vith v10) FAC has not been established.

MR Per Year \$ 405.57

It has been assumed that the size is 100' x 75' x 10' deep = 75000 cf = 562,500 GA

PM Per Year \$ 970.84

Subtotal \$ 1,376.41

Total Per Unit \$ 0.002

CostWorks 2008 Quarter 2 - FAC 8315 Lagoon and Settlement Pond

Qty	Assembly Number	Description	Labor Hours	Total Incl. O&P	Zip Code Prefix	Type	Release
1.000	G3015 670 1950	Chlorinator, annualized	3.75	269.32	200	FMR	2008 Qtr 2
1.000	G3015 670 2950	Chlorine detector, annualized	3.20	376.79	200	FMR	2008 Qtr 2
1.000	G3025 530 1950	Aerator, floating, annualized	5.14	324.73	200	FMR	2008 Qtr 2
				\$970.84			