

## FAC 2291 CONSTRUCTION MATERIAL PRODUCTION PLANT

SUC FY22: \$38,189.34 EA

Source: Inflated from FY21 (v22) using ENR labor and material cost indices to measure actual inflation.

Original Source: R&K Study of Sustainment Activities of a Rock Quarry, 2021.

CostWorks 2020 Quarter 3 - FAC 2291 Construction Material Production Plant									
Qty	Description	Labor Hours	Unit	Bare Mat.	Bare Labor	Bare Equip.	Total	Total Incl. O&P	Release
1.0	Conveyors, material handling, inclined belt, 10' rise with horizontal loader, 24" belt, 27.5' length	107	Ea	9,475.00	5,000.00	0.00	14,475.00	18,200.00	2020 Qtr 3
2.0	Conveyors, material handling, gravity fed, 600 lb capacity, 24" wide		Ea	1,130.00	0.00	0.00	1,130.00	1,250.00	2020 Qtr 3
1,200.0	Topsoil stripping and stockpiling, topsoil, clay, medium hard, adverse conditions, 300 HP dozer	0.011	C Y	0.00	576.00	1,932.00	2,508.00	3,036.00	2020 Qtr 3
2.0	Rough grading sites, open, 20,100-25,000 S.F., grader	11,429	Ea	0.00	950.00	1,530.00	2,480.00	3,200.00	2020 Qtr 3
240.0	Rock removal, drilling only for rock quarry for hole for pre-splitting, 2-1/2" hole	0.096	L F	0.00	902.40	1,500.00	2,402.40	3,084.00	2020 Qtr 3
2.0	Public water supply wells, wells domestic water, pumps, 1 HP, 4" submersible, installed in wells to 1'	6.987	Ea	2,400.00	640.00	0.00	3,040.00	3,650.00	2020 Qtr 3
60.0	Public water supply wells, wells domestic water, well casing or drop pipe, PVC, 6" diameter	0.185	L F	639.00	417.00	411.00	1,467.00	1,800.00	2020 Qtr 3
760.0	Synthetic erosion control, tobacco netting, or jute mesh #2, stapled	0.01	S Y	334.40	266.00	0.00	600.40	790.40	2020 Qtr 3
Totals:				\$13,978.40	\$8,751.40	\$5,373.00	\$28,102.80	\$35,010.40	

Notes: In the 2019 RPAD there are 29 Active assets. 20 of these assets are rock crusher plants. Therefore, FAC 2291 continues to be modeled as a rock quarry. Sustainment activities include those activities necessary to maintain the quarry itself, not the rock crushing equipment operating in the quarry, as those are considered not real property, and an operational activity, not a sustainment activity.

Study Sources include:

- Quarry best practices published by the Natural Stone Council
- ANSI/NSC 373 Sustainability Assessment for Natural Dimensional Stone Products
- EPA BMPs for erosion control