Builder's Aggregate 2018 SWSP Accounting

Constants									
Property	Value	Units							
Density of mined product	2750	lb/yd ³							
Density of granite	4640	lb/yd ³							
Porosity	0.407								
Moisture content ¹	4%								
Density of water	62.40	lb/ft ³							

Month	Exposed area, in	Volume of product mined, in cubic yards	Weight of mined product, in lbs	Volume of water removed with mined material, in acre-feet	Volume of water first fill, in acre- feet	Monthly Free Water Surface Evaporation, in feet ²	· ·	First Fill Depletions, in acre-feet	Total monthly
	acres [2]		[4]	[5]	[6]	[7]	[8]	[9]	depletions [10]
[1]		[3]							
April	0	0	0	0.00	0.00	0.37	0.00	0.00	0.00
May	0	0	0	0.00	0.00	0.49	0.00	0.00	0.00
June	0	0	0	0.00	0.00	0.59	0.00	0.00	0.00
July	0	0	0	0.00	0.00	0.62	0.00	0.00	0.00
August	0	0	0	0.00	0.00	0.55	0.00	0.00	0.00
September	0	0	0	0.00	0.00	0.41	0.00	0.00	0.00
October	0	0	0	0.00	0.00	0.29	0.00	0.00	0.00
November	0	0	0	0.00	0.00	0.16	0.00	0.00	0.00
December	2.2	0	0	0.00	0.00	0.12	0.26	0.00	-0.26
January	2.2	0	0	0.00	0.00	0.12	0.26	0.00	-0.26
February	2.2	0	0	0.00	0.00	0.14	0.31	0.00	-0.31
March	2.2	0	0	0.00	0.00	0.23	0.51	0.00	-0.51
Total		0	0	0.00	0.00	4.09	1.34	0.00	-1.34

¹ Hydraulic dredging operation sorts gravels in place and allows excess water and undersized materials to return to pond immediately during processing. Water removed only results from wetted surface area of mined materials. Modified from 2% to 4% to expidite processing of SWSP.

² Based on CDSS digitized contour lines from NOAA Atlas 33 Gross evaporation.

[4] = [3] x (density of product)

 $[5] = [4] x \text{ (mositure content 4\%)} \div \text{(density of water)} \div 43560 \text{ cu. ft./AF}$

[7] From Table 1

[8] = [2] x [7]

[9] = [5] + [6]

[10] = -1x([8] + [9])