

GENEVA ROCK PRODUCTS, INC.

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AGGREGATE SUBMITTAL

Report of Physical Properties

GRP Material Description:	Washed, 3/4" Concrete Aggregate	Report Date:	July 20, 2023
GRP Material Code:	ROCA	Reviewed by:	Dan McDaniel
Source Location/Code:	South Weber	Report No	580ROCA00223

TEST RESULTS				SIEVE ANALYSIS		
Standard	PHYS	PHYSICAL PROPERTIES			ASTM C136 AASHTO	
ASTM C 29	Unit	Unit Weight, lbs./cu.ft. =	97		Sieve Size	% Pas
AASHTO T19	Weight	Voids, % =	40		450 mm (18")	
		☐ Jigge☐ Loo☑ Rodded			375 mm (15")	
ASTM D1557	Modified	Max. density, lbs./cu.ft. =			300 mm (12")	
AASHTO T180	Proctor	Optimum Moisture, % =			250 mm (10")	
ASTM D698	Standard	Max. density, lbs./cu.ft. =			225 mm (9")	
AASHTO T99	Proctor	Optimum Moisture, % =			200 mm (8")	
ASTM D4318	Liquid Limit	Liquid Limit=			150 mm (6")	
AASHTO T89/90	Plastic Limit	Plastic Limit=			125 mm (5")	
	Plasticity Index	Plasticity Index=	NP		100 mm (4")	
ASTM C131	L.A.	Small Coarse Loss, % =	25	50 max	75.0 mm (3")	
AASHTO T96	Abrasion	Grading/Revolutions, =	B/500		63.0 mm (2-1/2")	
ASTM C535	L.A.	Large Coarse Loss, % =			50.0 mm (2")	
	Abrasion	Grading/Revolutions, =			37.5 mm (1-1/2")	
	Fine	Bulk Specific Gravity (dry) =			25.0 mm (1")	10
ASTM C 128	Specific	Bulk Specific Gravity, SSD =			19.0 mm (3/4")	99
AASHTO T84	Gravity &	Apparent Specific Gravity =			12.5 mm (1/2")	58
	Absorption	Absorption, % =			9.5 mm (3/8")	26
	Coarse	Bulk Specific Gravity (dry) =	2.645		6.3 mm (1/4")	
ASTM C 127	Specific	Bulk Specific Gravity, SSD =	2.681		4.75 mm (No.4)	3
AASHTO T85	Gravity &	Apparent Specific Gravity =	2.743		2.36 mm (No.8)	1
	Absorption	Absorption, % =	1.3		2.00 mm (No.10)	
ASTM D2419	Sand	Sand Equivalent, % =			1.18 mm (No.16)	
AASHTO T176	Equivalent				0.600 mm (No.30)	
	Soundness	Coarse Soundness Loss, % =	1.9	10 max	0.425 mm (No.40)	
ASTM C 88		Sodium No. of Cycles =	5		0.300 mm (No.50)	
AASHTO T104	Soundness	Fine Soundness Loss, % =			0.180 mm (No.80)	
		Magnesium No. of Cycles =			0.150 mm (No.100)	
ASTM C 1252	Fine Aggregate	Uncompacted Voids, % =			0.075 mm (No.200)	0.
AASHTO T304	Angularity	Method C (as received material)			ASTM D422	
ASTM C40	Organic	Coarse Aggregate, % =	Ligh	ter than 1	Hydrometer =	
AASHTO T21	Impurities	Fine Aggregate, % =			ASTM C566 AASHTO T255	
ASTM C142	Clay / Friable	Coarse Aggregate, % =	0.2	3 max	Moisture Content, % =	
AASHTO T112	Particles	Fine Aggregate, % =			ASTM C136 AASHTO T27	
ASTM C123	Lightweight	Coarse Aggregate, % =	0.0	5 max	Fineness Modulus (FM) =	
AASHTO T113	Pieces	Fine Aggregate, % =			AASHTO M145	
ASTM D1883	CBR	Surcharge = 10 lbs CBR @ 0.1"=			Classification of Soils =	
AASHTO T193		Swell% = 0.0% CBR @ 0.2"=			ASTM D4791 Ratio =	5:
ASTM D5821	Fractured Face	1 or 2 Faces =	1	2	Flat & Elongated =	0
		Fractured Face, % =	96	91		
ASTM D2487	Soil Classification	Group Symbol =				
		Group Name =				
ASTM D2488	Soil Description &	Group Symbol =				
	Identification	Group Name =				

ASTM C136 AASHTO T27					
Sieve Size	% Passing	Spec.			
450 mm (18")					
375 mm (15")					
300 mm (12")					
250 mm (10")					
225 mm (9")					
200 mm (8")					
150 mm (6")					
125 mm (5")					
100 mm (4")					
75.0 mm (3")					
63.0 mm (2-1/2")					
50.0 mm (2")					
37.5 mm (1-1/2")					
25.0 mm (1")	100	100			
19.0 mm (3/4")	99	95-100			
12.5 mm (1/2")	58				
9.5 mm (3/8")	26	20-55			
6.3 mm (1/4")					
4.75 mm (No.4)	3	0-10			
2.36 mm (No.8)	1	0-5			
2.00 mm (No.10)					
1.18 mm (No.16)					
0.600 mm (No.30)					
0.425 mm (No.40)					
0.300 mm (No.50)					
0.180 mm (No.80)					
0.150 mm (No.100)					
0.075 mm (No.200)	0.5	0-1			
ASTM D422					
Hydrometer =					
ASTM C566 AASHTO T255					
Moisture Content, % =					
ASTM C136 AASHTO T27					
Fineness Modulus (FM) =					
AASHTO M145					
Classification of Soils =					
ASTM D4791 Ratio =	5:1				
Flat & Elongated =	0				