

WOOD RODGERS

June 7, 2023
Project No. 2892040

Mr. Eric Jones
JOY ENGINEERING
1584 Wolf Meadows Lane
Portola, CA 96122

RE: Venice Way Quarry – Class 150 Rip Rap


Dear Mr. Jones:

Per your request, we have performed testing on the Venice Way Quarry Class 150 Rip Rap. The Rip Rap gradation was determined on the stockpiles on-site at the Venice Way Quarry. Test results are in comparison with NDOT and Standard Specifications for Public Works Construction (SSPWC, 2012) specifications are as follows:

Sieve Size Analysis (ASTM D5519 – Method C)		
U.S. Standard Sieve Size	Percent By Weight Passing	
	Venice Way Quarry	NDOT/SSPWC
10 Inch	100	100
9 Inch	85	70 – 85
8 Inch	80	–
6 Inch	50	35 – 50
2 Inch	5	5 – 15
1 Inch	1	0 – 5
Specific Gravity / Absorption (ASTM C127)		
Venice Way Quarry		NDOT/SSPWC
Apparent Specific Gravity	2.635	2.5 Minimum
Absorption	3.7%	4.0% Maximum
Los Angeles Abrasion (ASTM C131)		
Percentage Loss After 500 Revolutions (Grading B)	NDOT/SSPWC	
24%	45% Maximum	
Durability Index (ASTM D3744)		
Venice Way Quarry	SSPWC	
82	52 Minimum	

We appreciate the opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to call.

Sincerely,
WOOD RODGERS, INC.


Wheeler Musnicki
Assistant Lab Manager

