



# WOOD RODGERS

May 20, 2015  
Project No. 2892.040

Mr. Rick Joy  
JOY ENGINEERING  
81822 State Route 70  
Beckwourth, California 96129

## RE: Sloat Pit – Caltrans Concrete Sand

Dear Mr. Joy:

Per your request, we have performed aggregate quality testing on the concrete aggregate received by our laboratory from the Sloat Pit. Test results in comparison with Caltrans specifications are as follows:

<b>Sieve Size Analysis (ASTM C136/C117)</b>			
U.S. Standard Sieve Size	Percent By Weight Passing		
	Caltrans Concrete Sand	X-Value	Caltrans Operating Range Specifications
3/8Inch	100	–	100
No. 4	100	–	95 – 100
No. 8	80	–	65 – 95
No. 16	54	55	45 – 65
No. 30	35	35	26 – 44
No. 50	21	20	14 – 26
No. 100	11	–	2 – 12
No. 200	7.2	–	0 – 8
Fineness Modulus	2.99		–

<b>Durability Index (CT 229)</b>	
Sample	Caltrans Specification
75	60 Minimum

<b>Clay Lumps (Nev. T490)</b>	
Percent of Total Sample	Caltrans Specification
0.5%	N/A

<b>Sand Equivalent (CT217)</b>	
Concrete Sand	Caltrans Specification
77	71 Minimum

<b>Organic Impurities (CT213)</b>	
Concrete Sand	Caltrans Specification
Less Than Plate 1 (Satisfactory)	Less Than Plate 3 (Satisfactory)

Mr. Rick Joy  
JOY ENGINEERING  
May 20, 2015  
Page 2

Sodium Sulfate Soundness (CT214)	
Weighted Percentage Loss	Caltrans Specification
8.6%	10% Maximum

Unit Weight (CT212)	
Dry Loose Unit Weight	85.6 PCF

Specific Gravity and Absorption (CT206)	
Bulk Specific Gravity (SSD Basis)	2.52
Absorption	5.6%

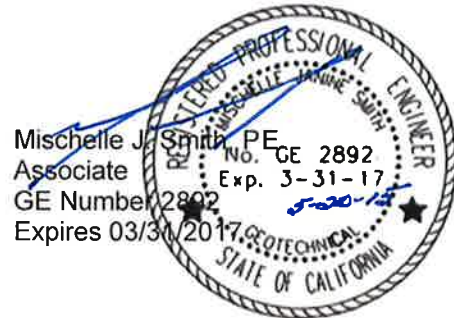
We appreciate the opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to call.

Sincerely,

**Wood Rodgers, Incorporated**



Brian T. Clark, PE  
Laboratory Manager



BTC:MJS:da