

I. GEOLOGICAL FORMATION: GREENSTONE

II. CHEMICAL ANALYSIS (February 2018) :

Silica	as SiO ₂	50.1%	Calcium	as CaO	6.21%
Iron	as Fe ₂ O ₃	13.9%	Magnesium	as MgO	6.64%
Aluminum	as Al ₂ O ₃	13.5%	Sulphur	as S	0.05%

III. QUALITY DATA:			Product								
TEST	TEST DATE		3	57	8	78	9	A SAND	C-Slurry	10	
* SPECIFIC GRAVITY *											
BULK (ASPHALT)	02/18		3.002	2.996	3.011	3.013	2.983	3.006	2.994	3.004	
BULK - SSD (CONCRETE)	02/18		3.011	3.008	3.030	3.030	3.004	3.019	3.004	3.017	
APPARENT	02/18		3.030	3.034	3.068	3.065	3.045	3.046	3.023	3.044	
% ABSORPTION	02/18		0.3%	0.4%	0.6%	0.6%	0.7%	0.4%	0.3%	0.4%	
* LOS ANGELES DEGRADATION *											
GRADING A % LOSS	02/18	22.3%									
GRADING B % LOSS	02/18	18.3%									
GRADING C % LOSS	02/18	24.0%									
SOUNDNESS % LOSS (Magnesium Sulfate)	02/18		0.6%	0.5%	0.4%	0.4%	3.6%	6.7%	4.6%	4.5%	
SOUNDNESS % LOSS (Sodium Sulfate)											
Surface Treatment Rate of Application											
Stone (lb/sq yd)											
Emulsion (gal/sq yd)											
* SUPERPAVE *											
ASTM C1252 % VOIDS (METH A)	02/18							50.6%	49.4%	49.9%	
AASHTO T 176 SAND EQUIVALENT	02/18							92	45	92	
ASTM D4791 % F & E (5:1)	02/18			6.2%	3.9%	5.1%					

QUARRY -4 WEIGHTS

MAXIMUM DRY DENSITY	<u>142.7</u>
OPTIMUM MOISTURE	<u>7.7</u>
BULK SPECIFIC GRAVITY	<u>3.04</u>
ABS.	<u>0.30</u>

MAXIMUM DRY DENSITY	<u>0</u>
OPTIMUM MOISTURE	<u>0.0</u>
BULK SPECIFIC GRAVITY	<u>3.04</u>
ABS.	<u>0.30</u>

PLAIN					WITH CEMENT			
% +4 Material	lbs/cu.ft. DENSITY	% MOISTURE	KG/cu.M. DENSITY		% +4 Material	lbs/cu.ft. DENSITY	% MOISTURE	KG/cu.M. DENSITY
70%	172.6	3.2	2766		70%	#DIV/0!	0.9	#DIV/0!
69%	172.1	3.3	2757		69%	#DIV/0!	0.9	#DIV/0!
68%	171.6	3.3	2749		68%	#DIV/0!	0.9	#DIV/0!
67%	171.1	3.4	2741		67%	#DIV/0!	0.9	#DIV/0!
66%	170.6	3.5	2733		66%	#DIV/0!	0.9	#DIV/0!
65%	170.1	3.5	2725		65%	#DIV/0!	0.8	#DIV/0!
64%	169.6	3.6	2717		64%	#DIV/0!	0.8	#DIV/0!
63%	169.1	3.7	2709		63%	#DIV/0!	0.8	#DIV/0!
62%	168.6	3.7	2701		62%	#DIV/0!	0.8	#DIV/0!
61%	168.1	3.8	2693		61%	#DIV/0!	0.8	#DIV/0!
60%	167.6	3.9	2685		60%	#DIV/0!	0.8	#DIV/0!
59%	167.1	3.9	2677		59%	#DIV/0!	0.8	#DIV/0!
58%	166.6	4.0	2669		58%	#DIV/0!	0.8	#DIV/0!
57%	166.2	4.1	2662		57%	#DIV/0!	0.7	#DIV/0!
56%	165.7	4.1	2654		56%	#DIV/0!	0.7	#DIV/0!
55%	165.2	4.2	2647		55%	#DIV/0!	0.7	#DIV/0!
54%	164.7	4.2	2639		54%	#DIV/0!	0.7	#DIV/0!
53%	164.3	4.3	2631		53%	#DIV/0!	0.7	#DIV/0!
52%	163.8	4.4	2624		52%	#DIV/0!	0.7	#DIV/0!
51%	163.3	4.4	2617		51%	#DIV/0!	0.7	#DIV/0!
50%	162.9	4.5	2609		50%	#DIV/0!	0.7	#DIV/0!
49%	162.4	4.6	2602		49%	#DIV/0!	0.6	#DIV/0!
48%	162.0	4.6	2594		48%	#DIV/0!	0.6	#DIV/0!
47%	161.5	4.7	2587		47%	#DIV/0!	0.6	#DIV/0!
46%	161.1	4.8	2580		46%	#DIV/0!	0.6	#DIV/0!
45%	160.6	4.8	2573		45%	#DIV/0!	0.6	#DIV/0!
44%	160.2	4.9	2566		44%	#DIV/0!	0.6	#DIV/0!
43%	159.7	4.9	2558		43%	#DIV/0!	0.6	#DIV/0!
42%	159.3	5.0	2551		42%	#DIV/0!	0.5	#DIV/0!
41%	158.8	5.1	2544		41%	#DIV/0!	0.5	#DIV/0!
40%	158.4	5.1	2537		40%	#DIV/0!	0.5	#DIV/0!
% +4 Material	lbs/cu.ft. DENSITY	% MOISTURE	KG/cu.M. DENSITY		% +4 Material	lbs/cu.ft. DENSITY	% MOISTURE	KG/cu.M. DENSITY
PLAIN					WITH CEMENT			