



2018

Product Data Sheet
Plant: Fieldale

I. GEOLOGICAL FORMATION: BIOTITE GNEISS

II. CHEMICAL ANALYSIS (March 2018) :

Silica	as SiO2	63.8%	Calcium	as CaO	3.4%
Iron	as Fe2O3	7.1%	Magnesium	as MgO	2.6%
Aluminum	as Al2O3	15.2%	Sulphur	as S	0.4%

III. QUALITY DATA:			Product												
TEST	TEST DATE		357	5	W 57	REG 57	68	78	8P	8	9	10C	10	B Slurry	C Slurry
* SPECIFIC GRAVITY *															
BULK (ASPHALT)	01/18		2.813	2.777	2.803	2.805	2.786	2.751	2.763	2.763	2.767	2.795	2.769	2.772	2.800
BULK - SSD (CONCRETE)	01/18		2.823	2.791	2.817	2.821	2.805	2.770	2.782	2.782	2.787	2.805	2.782	2.780	2.815
APPARENT	01/18		2.840	2.816	2.844	2.850	2.839	2.803	2.816	2.816	2.824	2.824	2.806	2.794	2.844
% ABSORPTION	01/18		0.3%	0.5%	0.5%	0.6%	0.7%	0.7%	0.9%	0.7%	0.7%	0.4%	0.5%	0.3%	0.6%
* LOS ANGELES DEGRADATION *															
GRADING A % LOSS	01/18	27.5%													
GRADING B % LOSS	01/18	26.8%													
GRADING C % LOSS	01/18	33.2%													
SOUNDNESS % LOSS (Magnesium Sulfate)	01/18		0.5%	0.8%	0.9%	0.8%	1.0%	1.0%	1.1%	1.1%	3.4%	11.3%	7.5%	7.4%	5.8%
SOUNDNESS % LOSS (Sodium Sulfate)															
Surface Treatment Rate of Application															
Stone (lb/sq yd)															
Emulsion (gal/sq yd)															
* SUPERPAVE *															
ASTM C1252 % VOIDS (METH A)	01/18											50.1%	50.3%	50.5%	50.7%
AASHTO T 176 SAND EQUIVALENT	01/18											93	79	88	84
ASTM D4791 % F & E (5:1)	01/18		3.3%	0.7%	0.9%	0.1%	1.9%	0.9%	1.8%	0.4%					

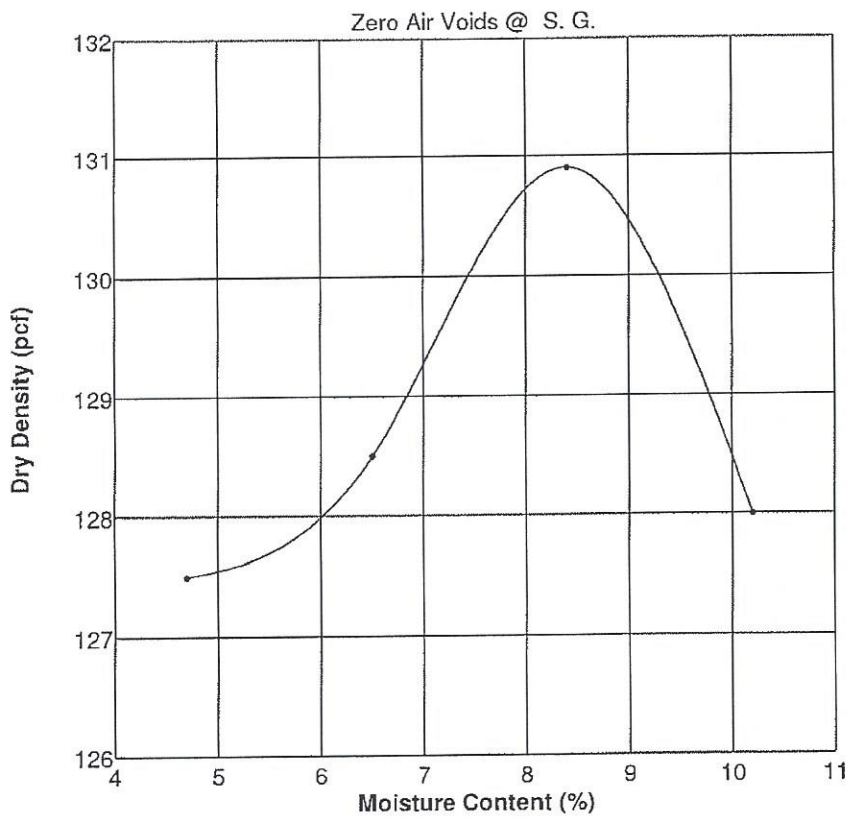
Virginia Department of Transportation

Salem District Materials

To: Boxley Materials - Martinsville

Proctor Report

Project Number: Various
 Report Number: 8405
 Report Date: 10-Mar-17
 Sample Type: 21B
 Sampled By: JAH
 Tested By: RLR
 Source: Quarry
 Sample Date: 06-Mar-17
 Date Received: 08-Mar-17
 Date Tested: 09-Mar-17



Max. Dry Density (pcf): 130.9
 Optimum Moisture Content (%): 8.4

Moisture Content (%)	Dry Density (pcf)	Wet Density (pcf)
4.7	127.5	133.5
6.5	128.5	136.8
8.4	130.9	141.9
10.2	128.0	141.1

21B

Per: _____

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of test results is provided only on written request.

VIRGINIA DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

SALEM, VA

3/10/2017

Producer: Boxley Aggregates Corp.

At: Fieldale, VA

Size Aggregate: 21A/21B

<u>% Retained on #4 sieve</u>	<u>Dry Wt. lbs/cu ft</u>	<u>Optimum Moisture Percent</u>
30.0	141.7	6.3
35.0	143.6	6.0
40.0	145.7	5.6
45.0	147.8	5.3
50.0	149.9	4.9
55.0	152.1	4.6
60.0	154.4	4.2
65.0	156.7	3.9
70.0	159.1	3.5

Absorption of +4s (%)	0.4
Maximum Density -4s (lbs/cu ft)	130.9
Optimum Moisture -4s (%)	8.4
Specific Gravity +4s	2.81

VIRGINIA DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

SALEM, VA

3/10/2017

Producer: Boxley Aggregates

At: Fieldale, VA

Size Aggregate: 21A/21B

<u>% Retained on #4 sieve</u>	<u>Dry Wt. kg/cu meter</u>	<u>Optimum Moisture Percent</u>
30.0	2,269	6.3
35.0	2,301	6.0
40.0	2,333	5.6
45.0	2,367	5.3
50.0	2,401	4.9
55.0	2,436	4.6
60.0	2,473	4.2
65.0	2,510	3.9
70.0	2,549	3.5

Absorption of +4s (%)	0.4
Maximum Density -4s (kg/cu M)	2,097
Optimum Moisture -4s (%)	8.4
Specific Gravity +4s	2.81