



NEVILLE AGGREGATES CO. INC.

Construction Aggregate Supplier

3501 Neville Road Pittsburgh, PA 15225

P: 412.771.4001
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February 2, 2016

PaDOT Ref. #: GRCWVC14
Material Type: C2A Limestone

To Whom It May Concern:

This letter is to verify that Neville Aggregates Co. Inc., Neville Island, is an agent for Greer Limestone Company, Morgantown WV. The limestone meets the requirements of PaDOT Publication 408, Section 703 for aggregates.

Sincerely,

Justin T. Bryan

David T. Giehl

Quality Test Report

BMG Research & Development Center

3507 Neville Road, Pittsburgh PA 15225



CONCRETE PRECAST AGGREGATE MARINE

Plant Neville Aggregates - Neville Island Terminal
Product 2A Limestone
Source Greer Limestone - GRCWVC14
Specification PaDOT 408 Section 703

Sample Information

Sample No	Average	Weather	-
Start Date	2/5/15	Temp	-
Finish Date	12/21/15	Split Sample	<input type="checkbox"/>
Sampled By	David Giehl	Resample	<input type="checkbox"/>
Tested By	David Giehl	Lot/Sublot	-
Type	Production Sample	Quantity	50 lbs
Method	Stockpile		

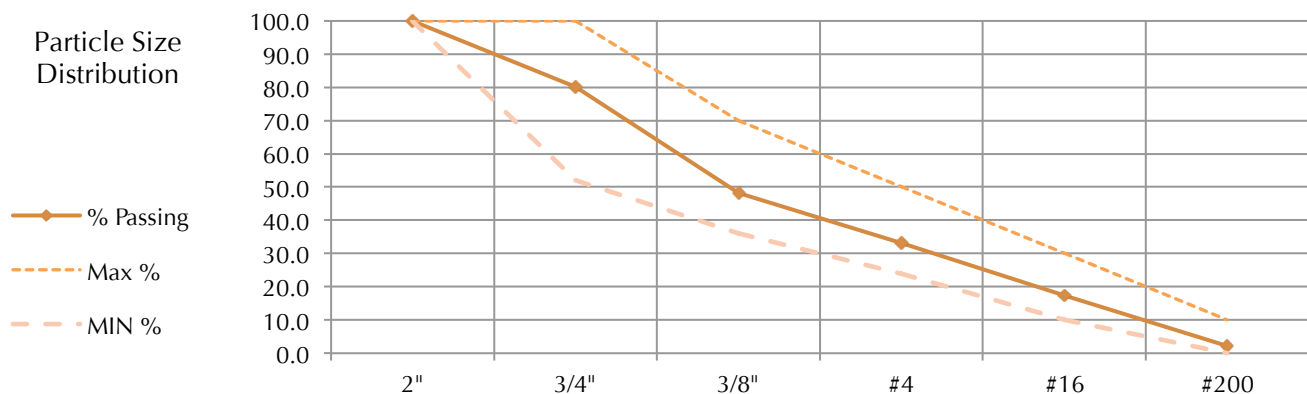
Gradation Results

Units	Moist Mass	Dry Mass	Moisture %	Wash ST	Wash End	Wash Loss %
lbs	35.42	33.25	6.54%	13.220	12.076	8.65%

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification %
2"	0.00	0.00	0.0	0.0	100.0	100	100
1 1/2"	0.00	0.00	0.0	0.0	100.0	-	-
3/4"	6.58	6.58	19.8	19.8	80.2	76	52
1/2"	5.65	12.24	17.0	36.8	63.2	-	-
3/8"	4.99	17.22	15.0	51.8	48.2	53	36
#4	4.99	22.21	15.0	66.8	33.2	37	24
#16	5.25	27.46	15.8	82.6	17.4	20	10
#200	5.05	32.52	15.2	97.8	2.2	5	0

Other Test Results

Test Name	Date	Result	Unit	Target	Specification %
Wash Loss (#200)	2/5/15	8.65%	%	5	0



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Plant Neville Aggregates - Neville Island Terminal
Product 2A Limestone
Source Greer Limestone - GRCWVC14
Specification PaDOT 408 Section 703
Test Procedure ASTM D698 - Standard Proctor

Sample Information

Sample No	611-43	Weather	-
Start Date	4/2/15	Temp	-
Finish Date	12/21/15	Split Sample	<input type="checkbox"/>
Sampled By	David Giehl	Resample	<input type="checkbox"/>
Tested By	GTS Inc.	Lot/Sublot	-
Type	Production Sample	Quantity	50 lbs
Method	Stockpile		

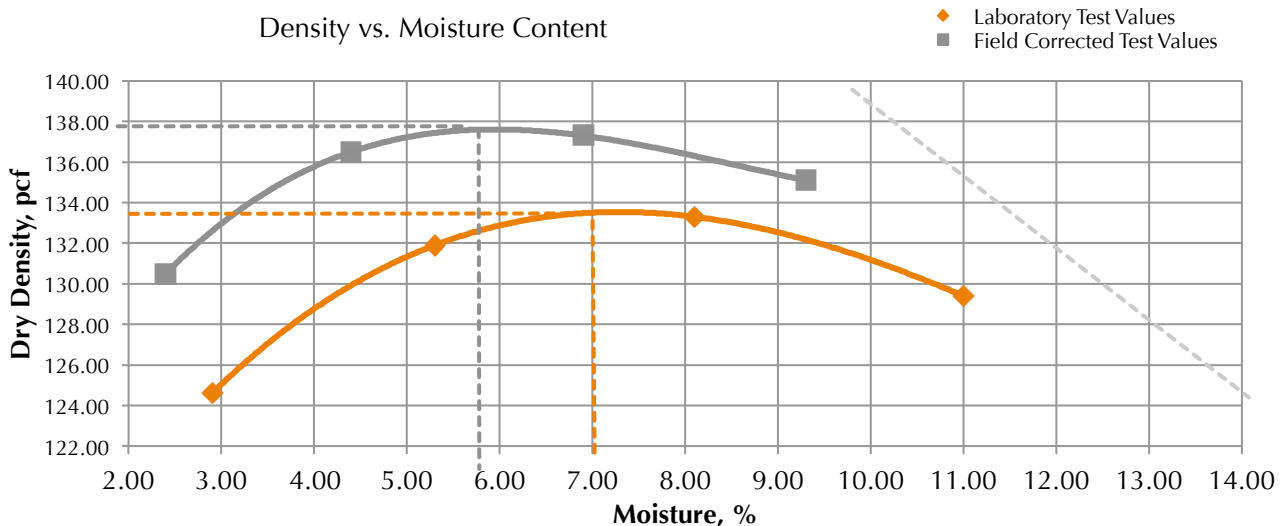
Proctor Results

Laboratory Test Values					Compaction Effort Standard Test Procedure C Mold Diameter 6" Compacted Layers 3 Weight/Fall 5.5lbs/12" Mold Volume, cc 2130.2
Water Content%	2.9	5.3	8.1	11.0	
Dry Density, pcf	124.6	131.9	133.3	129.4	
Field Corrected Test Values					
Water Content%	2.4	4.4	6.9	9.3	
Dry Density, pcf	130.5	136.5	137.3	135.1	

Summary

Lab Optimum Water Content, %	7.0	Field Optimum Water Content, %	5.8
Lab Maximum Dry Density, pcf	133.1	Field Maximum Dry Density, pcf	137.9

Density vs. Moisture Content



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Plant Neville Aggregates - Neville Island Terminal
Product 2A Limestone
Source Greer Limestone - GRCWVC14
Specification PaDOT 408 Section 703
Test Procedure ASTM D1557 - Modified Proctor

Sample Information

Sample No	611-43	Weather	-
Start Date	4/2/15	Temp	-
Finish Date	12/21/15	Split Sample	<input type="checkbox"/>
Sampled By	David Giehl	Resample	<input type="checkbox"/>
Tested By	GTS Inc.	Lot/Sublot	-
Type	Production Sample	Quantity	50 lbs
Method	Stockpile		

Proctor Results

Laboratory Test Values					Compaction Effort Modified Test Procedure C Mold Diameter 6" Compacted Layers 5 Weight/Fall 10lbs/18" Mold Volume, cc 2130.2
Water Content%	2.7	5.1	6.6	9.3	
Dry Density, pcf	136.5	141.5	143.0	135.2	
Field Corrected Test Values					
Water Content%	2.4	4.5	5.6	8.0	
Dry Density, pcf	141.2	145.7	146.5	140.2	

Summary

Lab Optimum Water Content, %	6.6	Field Optimum Water Content, %	5.6
Lab Maximum Dry Density, pcf	143.0	Field Maximum Dry Density, pcf	146.5

Density vs. Moisture Content

