



GEORGETOWN SAND & GRAVEL

P.O. Box 127 Georgetown PA 15043

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January 6, 2015

PaDOT Ref. #: GSG04A14

Material Type: #8 Gravel

To Whom It May Concern:

This letter is to verify that Georgetown Sand & Gravel, Georgetown, PA produces the material provided for your use. The above referenced material meets the requirements of PaDOT Publication 408, Section 703 for Type A aggregates.

Sincerely,

A handwritten signature in black ink that reads "Justin T. Bryan". The signature is written in a cursive style.

Justin T. Bryan

A handwritten signature in black ink that reads "David T. Giehl". The signature is written in a cursive style.

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 #8 Gravel
Source Georgetown Sand & Gravel - GSGWVA14
Specification PaDOT 408 Section 703

Sample Information

| | | | |
|--------------------|-------------------|---------------------|--------------------------|
| Sample No | Average | Weather | - |
| Start Date | 3/20/14 | Temp | - |
| Finish Date | 12/20/14 | Split Sample | <input type="checkbox"/> |
| Sampled By | David Giehll | Resample | <input type="checkbox"/> |
| Tested By | David Giehll | 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 | 12.53 | 12.44 | 0.71% | 8.960 | 8.896 | 0.71% |

| Sieve | Mass Retained | Cum Mass Retained | Ind % Retained | % Retained | % Passing | Target | Specification % |
|-------|---------------|-------------------|----------------|------------|-----------|--------|-----------------|
| 3/4" | 0.00 | 0.00 | 0.0 | 0.0 | 100.0 | 100 | 100 100 |
| 1/2" | 0.00 | 0.00 | 0.0 | 0.0 | 100.0 | 100 | 100 100 |
| 3/8" | 0.00 | 0.00 | 0.0 | 0.0 | 100.0 | 92.5 | 85 100 |
| 1/4" | 6.53 | 6.53 | 52.5 | 52.5 | 47.5 | - | - - |
| #4 | 3.94 | 10.47 | 31.7 | 84.2 | 15.8 | 20 | 10 30 |
| #8 | 1.77 | 12.24 | 14.2 | 98.4 | 1.6 | 5 | 0 10 |
| #16 | 0.05 | 12.29 | 0.4 | 98.8 | 1.2 | 2.5 | 0 5 |
| PAN | 0.15 | 12.44 | 1.2 | 100.0 | 0.0 | - | - - |

Other Test Results

| Test Name | Date | Result | Unit | Target | Specification % |
|------------------|----------|--------|------|--------|-----------------|
| Wash Loss (#200) | 3/20/14 | 0.71% | % | 0.5 | 0 1 |
| Crush Count | 12/20/14 | 62.6% | % | 77.5 | 55 100 |

