



2009 PRODUCT TEST SUMMARY

PRODUCT: NO. 4 MESH WASHED SAND - CLASS A

GRADATION

| NUMBER OF TESTS PERFORMED: 4 | | | DATE OF LAST TEST: 07/30/2009 | | | |
|---|----------------------|----------------------|--------------------------------|---|--|---|
| SIEVES (millimeters in parentheses) | MNDOT SPEC LIMITS | MNDOT SPEC MEDIAN | N.U.Q.Q. RUNNING AVERAGE | STANDARD DEVIATION ABOUT RUNNING AVERAGE | WEIGHTS RETAINED ON INDIVIDUAL SIEVES | CUMULATIVE WEIGHTS RETAINED ON INDIVIDUAL SIEVES |
| 0.375" (9.5) | N/A | N/A | 100.0% | 0.0% | 0.0% | 0.0% |
| #4 (4.75) | N/A | N/A | 96.6% | 2.0% | 3.4% | 3.4% |
| #8 (2.38) | N/A | N/A | 81.7% | 6.4% | 15.0% | 18.4% |
| #16 (1.19) | N/A | N/A | 68.2% | 9.2% | 13.5% | 31.9% |
| #30 (0.59) | N/A | N/A | 44.7% | 9.3% | 23.5% | 55.3% |
| #50 (0.3) | N/A | N/A | 19.2% | 4.6% | 25.5% | 80.8% |
| #100 (0.149) | N/A | N/A | 5.0% | 0.8% | 14.2% | 95.0% |
| #200 (0.075) | N/A | N/A | 1.8% | 0.4% | 3.2% | 98.2% |

NOTE: VALUES INDICATE THE PERCENT BY WEIGHT PASSING SQUARE OPENING SIEVES - UNLESS OTHERWISE NOTED.

GENERAL QUALITY

| QUALITY PARAMETERS | N.U.Q.Q. RUNNING AVERAGE | MNDOT SPEC LIMITS | NOTE |
|--|--------------------------------|----------------------|-----------------|
| SPECIFIC GRAVITY, (A.S.T.M. C127-88): | 2.603 | N/A | RELATIVE WEIGHT |
| FINENESS MODULUS, (A.S.T.M. C136): | 2.85 | N/A | |
| COEFICIENT OF UNIFORMITY: | 5.69 | N/A | D60 / D10 |
| UNCOMPACTED VOIDS, (A.S.T.M. C1252, METHOD A): | 46.6% | N/A | FAA (METHOD A) |

QUARTZITE AGGREGATES CONTAIN NO SHALE, IRON OXIDE, SLATE, UNSOUND CHERT OR CLAY BALLS.

NO. 4 MESH WASHED SAND IS 100% CRUSHED OR "MANUFACTURED" SAND.

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SAMPLES AVAILABLE UPON REQUEST