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AGGREGATE SUBMITTAL

ASTM C-33 Report of Physical Properties

| GRP Material Description: Washed, Concrete Rock | Report Date: May 30, 2023 | |
|---|---------------------------|--|
| GRP Material Code: ROCA | Reviewed by: Dan McDaniel | |
| Source Location/Code: Point of the Mtn / 525 | Report No. 525ROCA00223 | |

| | SIEVE | | | | |
|---------------|----------------------------------|---------------------------------|---------|-------------|-------------------|
| Standard | TEST RESULTS PHYSICAL PROPERTIES | | Result | Test Source | ASTM C13 |
| ASTM C 29 | Unit | Unit Weight, lbs./cu.ft. = | 94 | | Sieve Size |
| AASHTO T19 | Weight | Voids, % = | 2 | | 450 mm (18") |
| | | ☐ Jigged☐ Loos€✓ Rodded | | | 375 mm (15") |
| ASTM D1557 | Modified | Max. density, lbs./cu.ft. = | | | 300 mm (12") |
| AASHTO T180 | Proctor | Optimum Moisture, % = | | | 250 mm (10") |
| ASTM D698 | Standard | Max. density, lbs./cu.ft. = | | | 225 mm (9") |
| AASHTO T99 | Proctor | Optimum Moisture, % = | | | 200 mm (8") |
| ASTM D4318 | Liquid Limit | Liquid Limit= | : | | 150 mm (6") |
| AASHTO T89/90 | Plastic Limit | Plastic Limit= | | | 125 mm (5") |
| | Plasticity Index | Plasticity Index= | | | 100 mm (4") |
| ASTM C131 | L.A. | Small Coarse Loss, % = | 22 | | 75.0 mm (3") |
| AASHTO T96 | Abrasion | Grading/Revolutions, = | B/500 | | 63.0 mm (2-1/2 |
| ASTM C535 | L.A. | Large Coarse Loss, % = | | | 50.0 mm (2") |
| | Abrasion | Grading/Revolutions, = | | | 37.5 mm (1-1/2 |
| | Fine | Bulk Specific Gravity (dry) = | | | 25.0 mm (1") |
| ASTM C 128 | Specific | Bulk Specific Gravity, SSD = | | | 19.0 mm (3/4' |
| AASHTO T84 | Gravity & | Apparent Specific Gravity = | | | 12.5 mm (1/2" |
| | Absorption | Absorption, % = | | | 9.5 mm (3/8") |
| | Coarse | Bulk Specific Gravity (dry) = | 2.547 | | 6.3 mm (1/4" |
| ASTM C 127 | Specific | Bulk Specific Gravity, SSD = | 2.580 | | 4.75 mm (No.4 |
| AASHTO T85 | Gravity & | Apparent Specific Gravity = | 2.634 | | 2.36 mm (No.8 |
| | Absorption | Absorption, % = | 1.3 | | 2.00 mm (No.1 |
| ASTM D2419 | Sand | Sand Equivalent, % = | | | 1.18 mm (No.1 |
| AASHTO T176 | Equivalent | | | | 0.600 mm (No.3 |
| | Soundness | Coarse Soundness Loss, % = | 2 | | 0.425 mm (No.4 |
| ASTM C 88 | | Sodium Sulfate No. of Cycles = | 5 | | 0.300 mm (No.5 |
| AASHTO T104 | Soundness | Fine Soundness Loss, % = | | | 0.180 mm (No.8 |
| | | Magnesium No. of Cycles = | | | 0.150 mm (No.1 |
| ASTM C 1252 | Fine Aggregate | Uncompacted Voids, % = | | | 0.075 mm (No.2 |
| AASHTO T304 | Angularity | Method C (as received material) | | | ASTM D422 |
| ASTM C40 | Organic | Coarse Aggregate, % = | Lighter | Plate #1 | Hydror |
| AASHTO T21 | Impurities | Fine Aggregate, % = | | | ASTM C566 AASHTO |
| ASTM C142 | Clay / Friable | Coarse Aggregate, % = | 0 | | Moisture Conte |
| AASHTO T112 | Particles | Fine Aggregate, % = | | | ASTM C136 AASHTO |
| ASTM C123 | Lightweight | Coarse Aggregate, % = | 0 | | Fineness Modulus |
| AASHTO T113 | Pieces | Fine Aggregate, % = | | | AASHTO M145 |
| ASTM D1883 | CBR | Surcharge = 10 lbs CBR @ 0.1"= | | | Classification of |
| AASHTO T193 | | Swell% = 0.0% CBR @ 0.2"= | | | ASTM D4791 |
| ASTM D5821 | Fractured Face | 1 or 2 Faces = | 1 | 1 = 100 | Flat & Elonga |
| | | Fractured Face, % = | | 2 = 98 | |
| ASTM D2487 | Soil Classification | Group Symbol = | | | |
| | | Group Name = | | | |
| ASTM D2488 | Soil Description & | Group Symbol = | | | |
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| SIEVE ANALYSIS | | | | | | |
|---------------------------|-----------|-------|--|--|--|--|
| ASTM C136 AASHTO T27 | | | | | | |
| Sieve Size | % Passing | Spec. | | | | |
| 450 mm (18") | | | | | | |
| 375 mm (15") | | | | | | |
| 300 mm (12") | | | | | | |
| 250 mm (10") | | | | | | |
| 225 mm (9") | | | | | | |
| 200 mm (8") | | | | | | |
| 150 mm (6") | | | | | | |
| 125 mm (5") | | | | | | |
| 100 mm (4") | | | | | | |
| 75.0 mm (3") | | | | | | |
| 63.0 mm (2-1/2") | | | | | | |
| 50.0 mm (2") | | | | | | |
| 37.5 mm (1-1/2") | | | | | | |
| 25.0 mm (1") | 100 | | | | | |
| 19.0 mm (3/4") | 98 | | | | | |
| 12.5 mm (1/2") | 61 | | | | | |
| 9.5 mm (3/8") | 31 | | | | | |
| 6.3 mm (1/4") | | | | | | |
| 4.75 mm (No.4) | 2 | | | | | |
| 2.36 mm (No.8) | 1 | | | | | |
| 2.00 mm (No.10) | | | | | | |
| 1.18 mm (No.16) | | | | | | |
| 0.600 mm (No.30) | | | | | | |
| 0.425 mm (No.40) | | | | | | |
| 0.300 mm (No.50) | | | | | | |
| 0.180 mm (No.80) | | | | | | |
| 0.150 mm (No.100) | | | | | | |
| 0.075 mm (No.200) | 0.5 | | | | | |
| ASTM D422 | | | | | | |
| Hydrometer = | | | | | | |
| ASTM C566 AASHTO T255 | | | | | | |
| Moisture Content, % = | | | | | | |
| ASTM C136 AASHTO T27 | | | | | | |
| Fineness Modulus (FM) = | | | | | | |
| AASHTO M145 | | | | | | |
| Classification of Soils = | | | | | | |
| ASTM D4791 Ratio = | 5:1 | | | | | |
| Flat & Elongated %= | 0 | | | | | |
| | | | | | | |

Identification

Group Name =