



Red Rock Quarry Work Sheet for Sieve Analysis of Granular Material



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|-----------------------------------|--|---------------------------|
| Project No: | Date: 7/2/2012 | Test No: 9 |
| Material Type: 3/4" Clean (CA-50) | Station: RRQ | Depth From Grading Grade: |
| Total Wt. of Sample: 18.6 | Tester Name or Certification No: Noel Pidde #14828 | |

| Coarse Sieves: | | | | (1) Indiv. Weights | (2) Sieve Size | (3) Cumulative Wts. Passing | (4) Total % Passing | Gradation Requirements |
|----------------|------|-------------|--------|--------------------------|--|-----------------------------------|---------------------------|---------------------------|
| *Pass | | Sieve, Ret. | Sieve | | | | | |
| *Pass | 1" | Sieve, Ret. | 3/4" | 0.1 | | | | |
| *Pass | 3/4" | Sieve, Ret. | 5/8" | 1.6 | 3/4" | 18.400 | 99 | 85--100 |
| *Pass | 5/8" | Sieve, Ret. | 1/2" | 5.1 | 5/8" | 16.800 | 90.811 | |
| *Pass | 1/2" | Sieve, Ret. | 3/8" | 4.5 | 1/2" | 11.700 | 63.243 | |
| *Pass | 3/8" | Sieve, Ret. | #4 | 6.4 | 3/8" | 7.200 | 38.919 | 30--60 |
| *Pass | #4 | Sieve, Ret. | Bottom | 0.8 | #4 | 0.800 | 4.324 | 0--12 |
| Check Total - | | | | 18.5 | *Shall Check Total Wt. Within 0.2 lbs (0.1 kg) | | | |

*Enter necessary sieve sizes for class of material to be tested.

Column (1) Enter weights of material between each set of sieves individually.

Column (2) Enter the passing sieves size.

Column (3) Add column (1) from the bottom up to get cumulative weights passing each sieve.

Column (4) Divide column (3) by check total of sample to get total % passing.

Fine Sieves:

(A) Take two samples identical in condition and damp weight from "passing _____ #4 _____ material."

(B) Dry one sample and record weight.

(C) Wash and dry other sample and record weight.

(D) Loss in waashing (B-C) (Enter Below)

| |
|-----|
| 362 |
| 355 |
| 7.0 |

| | | | | (5) Indiv. Weights | (6) Sieve Size | (7) Cumulative Wts. Passing | (8) Cum. % Passing | (9) % Passing of Total Pass. | Gradation Requirements |
|--|-----|-------------|--------|--------------------------|---|-----------------------------------|--------------------------|------------------------------------|---------------------------|
| *Pass | | Sieve, Ret. | Sieve | | | | | | |
| *Pass | 4 | Sieve, Ret. | 8 | 279.5 | #4 | 361.5 | 100 | 4.324 | |
| *Pass | 8 | Sieve, Ret. | 16 | 35 | #8 | 82 | 22.683 | 0.981 | |
| *Pass | 16 | Sieve, Ret. | 30 | 17.5 | #16 | 47 | 13.001 | 0.562 | |
| *Pass | 30 | Sieve, Ret. | 50 | 8.5 | #30 | 29.5 | 8.160 | 0.353 | |
| *Pass | 50 | Sieve, Ret. | 100 | 5.5 | #50 | 21 | 5.809 | 0.251 | |
| *Pass | 100 | Sieve, Ret. | 200 | 6 | #100 | 15.5 | 4.288 | 0.185 | |
| *Pass | 200 | Sieve, Ret. | Bottom | 2.5 | #200 | 9.5 | 2.628 | 0.114 | < 1 |
| Loss by Washing- | | | | 7.0 | | | | | |
| Check Total- | | | | 361.5 | (*Shall Check total Wt. Within 5.0 grams) | | | | |
| Percent Passing #200 Sieve Divided by Percent Passing 1 in. Sieve (if specified) | | | | | | | | | |

Column (5) Enter weights of material between each set of sieves and loss by washing (DO NOT OVERLOAD SIEVES)

Column (6) Enter the passing sieve size.

Column (7) Add column (5) from bottom up to get cumulative weights passing each sieve. Be sure to add loss by washing to weight of material passing #200 sieve to get first entry at bottom of column (7).

Column (8) Divide column (7) by check total dry weight of fine sample (Column 5) to get cumulative % passing.

Column (9) Multiply column (8) by % passing final sieve from column (4) to get "Percent Passing" based on total sample.