



State of Minnesota Department of Transportation

Aggregates Test Report

Office of Materials and Road Research

1400 Gervais Avenue

Maplewood, MN 55109

Sample ID Number: CO-PS12-0021

Project Number: For Info Only

Field ID: 236
Date Sampled: 10/24/2012
Date Received: 11/08/2012
Approved: 12/11/2012 15:29
TH Number:
Depth: 4.00 to 5.00
Grade Spec:
Spec Class:
Quality Spec:
Plant Name:
Comment: 47-22-29

Billing Agency:
Project Engineer: D. MARTIN
Submitter: C.JENNINGS
IAS Name:
Pit #:
Pit Name:
Pit Owner:
Sampled From: AITKIN CO SALO TWSP
Usage: DNR PROSPECTING

Test Procedures: AASHTO T-19, T-21, T-27(M), T-30(M), T-84(M), T-85(M), T-96(M), T-104(M), T-113(M), T-176(M), T-248(M), T-304 Method A, ASTM C123, ASTM C535, ASTM D3042, ASTM D4791(M), Micro Deval(MP), Percent Crushing(MP) M = MN/DOT Modified MP = MN/DOT Procedures

| % Passing Sieve: | Lab Test | Field Test | Spec. Limits | |
|---------------------|-------------|---------------|--------------|------|
| | | | Low | High |
| 50mm (2") | 100 | | | |
| 37.5mm (1 1/2") | 97 | | | |
| 31.5mm (1 1/4") | 94 | | | |
| 25.0mm (1") | 91 | | | |
| 19.0mm (3/4") | 88 | | | |
| 12.5mm (1/2") | 82 | | | |
| 9.5mm (3/8") | 79 | | | |
| 4.75mm (#4) | 70 | | | |
| 2.36mm (#8) | 60 | | | |
| 2.00mm (#10) | 57 | | | |
| 1.18mm (#16) | 47 | | | |
| 600um (#30) | 30 | | | |
| 425um (#40) | 21 | | | |
| 300um (#50) | 15 | | | |
| 150um (#100) | 7 | | | |
| 75um (#200) | 4.3 | | | |

| | |
|-------------------|--------|
| % Shale in Sand | ***0.0 |
| % Iron Oxide | 0.10 |
| % Spall Argillite | 0.7 |
| % Misc. Spall | 4.68 |
| % Carbonate | 0.5 |
| % Sandstone | 5.1 |
| % Total Spall | 1.7 |
| % BA Spall +4 | 5.5 |

* Value does not meet Spec
~ Value out of Field Lab Tolerance
*** Trace (0.00 - 0.05) Detected
% Shale in Sand N.C. = Trace

☐ Meets Requirements
☐ Does Not Meet Requirements
☒ For Info Only
☐ Incentive/Disincentive

☐ Unable to Verify
☐ Unable to Verify, Not Enough Material Supplied
☐ Within Lab-Field Tolerance
☐ Out of Lab-Field Tolerance

Comments:

Copies To
DNR - H. ARENDS

Charge: 1 - 1012
1 - 1013
1 - 1014
1 - 1029

Report Approved By:

David B. Bahr