



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-PS12-0033

Project Number: For Info Only

Field ID: 268
Date Sampled:
Date Received: 11/30/2012
Approved: 12/24/2012 14:15
TH Number:
Depth:
Grade Spec:
Spec Class:
Quality Spec:
Plant Name:
Comment: LIBBY TOWNSHIP

Billing Agency:
Project Engineer: D.MARTIN
Submitter: C.JENNINGS
IAS Name:
Pit #:
Pit Name:
Pit Owner:
Sampled From: GRAB 50-124-11
Usage: AITKIN CO 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")	96			
25.0mm (1")	88			
19.0mm (3/4")	83			
12.5mm (1/2")	74			
9.5mm (3/8")	66			
4.75mm (#4)	46			
2.36mm (#8)	33			
2.00mm (#10)	31			
1.18mm (#16)	26			
600um (#30)	19			
425um (#40)	16			
300um (#50)	13			
150um (#100)	7			
75um (#200)	4.6			
<hr/>				
% Shale in Sand	0.2			
% Iron Oxide	0.20			
% Unsound Chert	0.04			
% Spall Argillite	0.1			
% Misc. Spall	0.07			
% Carbonate	6.4			
% Total Spall	0.3			
% BA Spall +4	0.3			

* 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