



## 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-PS11-0009

Project Number: For Info Only

Field ID: DH 130, 131  
Date Sampled: 11/03/2010  
Date Received: 12/09/2010  
Approved: 2/24/2011 15:03  
TH Number:  
Depth: 9.00 to 19.00  
Grade Spec:  
Spec Class:  
Quality Spec:  
Plant Name:  
Comment:

Billing Agency:  
Project Engineer: D. MARTIN  
Submitter: DNR- H. ARENDS  
IAS Name:  
Legal: SE1/4 SE1/4 Sec 30 - 126 - 32  
Pit Name:  
Pit Owner:  
Sampled From: DRILL HOLE  
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
31.5mm (1 1/4")	100			
25.0mm (1")	99			
19.0mm (3/4")	99			
16.0mm (5/8")	98			
12.5mm (1/2")	96			
9.5mm (3/8")	94			
4.75mm (#4)	88			
2.36mm (#8)	81			
2.00mm (#10)	78			
1.18mm (#16)	66			
600um (#30)	41			
425um (#40)	25			
300um (#50)	13			
150um (#100)	5			
75um (#200)	4.2			

% Shale in Sand	***0.0
% Total Shale +4	0.1
% Total Sample Shale	***0.0
% Spall Argillite	0.3
% Carbonate	29.2
% Iron Oxide	0.20
% Unsound Chert	0.50
% Total Sample Spall	0.1
% BA Spall +4	1.2

\* 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:  
PROSPECT SAMPLE

Copies To  
DNR - H. ARENDS

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

Report Approved By: