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9-97

**STATE OF ALASKA**  
**Department of Transportation & Public Facilities**  
**Central Materials Lab**  
 5750 EAST TUDOR RD. ANCHORAGE AK 99507  
 Phone (907) 269-6200 FAX (907) 269-6201  
**Laboratory Report**

INFORMATION

PROJECT NAME: Sand Point Airport Runway Ext. PROJECT NO. ATP 3-02-0253-0904 / 57797 LABORATORY NO. 05A-0117  
 SAMPLE OF: Primary Armor Stone ITEM/SPECIFICATION NO.: P-185a FIELD NO.: I-AS-Q-1  
 SAMPLED FROM: Recovered Primary Armor Stone (Existing) DATE SAMPLED: 01/20/2005  
 SOURCE/SUPPLIER: Existing / Knoll Quarry QUANTITY REPRESENTED Source DATE RECEIVED: 01/26/2005  
 LOCATION/ADDRESS: Sand Point AK SUBMITTED BY: J. Bowers DATE COMPLETED: 02/14/2005  
 EXAMINED FOR: Quality Tests DATE REPORTED: 02/14/2005

Sieve Analysis

STIEVE	Lab	Specs.
4"		
2"		
1 1/2"		
1"		
3/4"		
1/2"		
3/8"		
1/4"		
#4		
#8		
#16		
#30		
#40		
#50		
#60		
#200		
#200		
.075mm		
.002mm		

ASTM C 127

ASTM C 88

ASTM C 131

ATM 313

‡ Fracture  
 Single Face  
 Double Face  
 Flat Elongated, 3:1  
 Uncompacted Voids of FA

	Lab	Specs		
Specific Gravity, Bulk	2.71			
Specific Gravity, SSD	2.75	2.65 min		
Specific Gravity, App.	2.81			
Lightweight Part., ‡				
Sulfate Sound, ‡ Loss	7	5 max		
‡ Loss @ 100 revs	7	10 max		
Degradation	58	40 min		

Fineness Modulus

LL  
 PL  
 PI

MORTAR MAKING PROPERTIES OF SAND  
 Organic Impurities [ ] Less [ ] More than 500 PPM  
 Compressive Strength, psi (if More than....)  
 Control Sample Ratio Spec.  
 28 Day

Remarks: Expansive Breakdown by Ethylene Glycol  
 CRD-C 148-69  
 (32.5%) Specs. 2 max

When Processed to conform to grading requirements, this material is satisfactory for:

**DRAFT**

The Material as Submitted Conforms to Specifications  
 Yes [ ] No [X] NA [ ]

Signature

Neil J. ...  
 Regional Materials Engineer