

SOIL AND AGGREGATE REPORT

Lab Number: 19-3509



* ATM tests are not accredited by the AAP.

Project: Kivalina Evac Road
 AKSAS: NRMBS00333
 Ledger:
 Sampled by:
 Date Sampled:
 Test Hole: 19-3509
 Latitude: N67.81094
 Longitude: W164.38653
 Depth:

Field Number:
 Material Site: rock from terrace
 Other Source:
 Item #:
 Sample of:
 Date Rec:
 Sample Type:

ASTM	AASHTO	Tests	Reg Lab	Field Lab	Specs
D-4318	T-89	Liquid Limit			
	T-90	Plastic Index			
C-127	Coarse Agg SpG	APP	2.691		
	T-85	SSD	2.660		
		BULK	2.642		
		Absorption	0.7		
C-128/D-854	Fine Agg SpG	APP			
	T-84/T-100	SSD			
		BULK Absorption			
C-88	Sodium Sulfate Soundness	Coarse Fine	2		
C-131	T-96	LA Abrasion	23		
	ATM 313	Degradation	73		
	ATM 312	Nordic Abrasion			
	T-267	Organic by Ignition			
C-40	T-21	ORGANIC PPM			
C-566	T-255/T-265	Moisture Content			
D-2419		SAND EQUIVALENT			
D-4791		FLAT OR ELONGATED			
	FRACTURE	Single Face			
	AASHTO TP-61	Double Face			
		FINENESS MODULUS			
		% Deleterious			

AASHTO T-27/11			ASTM C-136/117	
mm	inches	% Passing	Field	Specs
75	3"			
50	2"			
37.5	1 1/2"			
25.0	1"			
19.0	3/4"			
12.5	1/2"			
9.5	3/8"			
4.75	#4			
2.36	#8			
2.00	#10			
1.18	#16			
0.850	#20			
0.600	#30			
0.425	#40			
0.300	#50			
0.250	#60			
0.180	#80			
0.150	#100			
0.075	#200			
Hydro.	0.02 mm			
AASHTO	0.005 mm			
T-88	0.002 mm			
	0.001 mm			

REMARKS:

AASHTO Class: ()

DOT&PF Soil Desc:

UNIFIED Class:

Signature:

Heidi Schaefer

Heidi Schaefer
 Regional Lab Supervisor

Date: 3/14/19

SOIL AND AGGREGATE REPORT

Lab Number: 19-3510



Project: Kivalina Evac Road

AKSAS: NRMBS00333

Ledger:

Sampled by:

Date Sampled:

Test Hole: 19-3510

Latitude: N67.81133

Longitude: W164.38639

Depth:

Field Number:

Material Site: rock from terrace

Other Source:

Item #:

Sample of:

Date Rec:

Sample Type:

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ASTM	AASHTO	Tests	Reg Lab	Field Lab	Specs
D-4318	T-89	Liquid Limit			
	T-90	Plastic Index			
C-127	Coarse Agg SpG	APP	2.700		
	T-85	SSD	2.670		
		BULK	2.653		
		Absorption	0.7		
C-128/D-854	Fine Agg SpG	APP			
	T-84/T-100	SSD			
		BULK			
		Absorption			
C-88	Sodium Sulfate Soundness	Coarse	2		
		Fine			
C-131	T-96	LA Abrasion	23		
	ATM 313	Degradation	30		
	ATM 312	Nordic Abrasion			
	T-267	Organic by Ignition			
C-40	T-21	ORGANIC PPM			
C-566	T-255/T-265	Moisture Content			
D-2419		SAND EQUIVALENT			
D-4791		FLAT OR ELONGATED			
	FRACTURE	Single Face			
	AASHTO TP-61	Double Face			
		FINENESS MODULUS			
		% Deleterious			

AASHTO T-27/11		ASTM C-136/117		
mm	inches	% Passing	Field	Specs
75	3"			
50	2"			
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12.5	1/2"			
9.5	3/8"			
4.75	#4			
2.36	#8			
2.00	#10			
1.18	#16			
0.850	#20			
0.600	#30			
0.425	#40			
0.300	#50			
0.250	#60			
0.180	#80			
0.150	#100			
0.075	#200			
Hydro.	0.02 mm			
AASHTO	0.005 mm			
T-88	0.002 mm			
	0.001 mm			

REMARKS:

AASHTO Class: ()

DOT&PF Soil Desc:

UNIFIED Class:

Signature: Heidi Schaefer
 Heidi Schaefer
 Regional Lab Supervisor
 Date: 3/14/19

SOIL AND AGGREGATE REPORT

Lab Number: 19-3511



Project: Kivalina Evac Road

AKSAS: NRMBS00333

Ledger:

Sampled by:

Date Sampled:

Test Hole: 19-3511

Latitude: N67.81121

Longitude: W164.38611

Depth:

Field Number:

Material Site: rock from terrace

Other Source:

Item #:

Sample of:

Date Rec:

Sample Type:

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ASTM	AASHTO	Tests	Reg Lab	Field Lab	Specs
D-4318	T-89	Liquid Limit			
	T-90	Plastic Index			
C-127	Coarse Agg SpG	APP	2.714		
	T-85	SSD	2.683		
		BULK	2.665		
		Absorption	0.7		
C-128/D-854	Fine Agg SpG	APP			
	T-84/T-100	SSD			
		BULK			
		Absorption			
C-88	Sodium Sulfate Soundness	Coarse	2		
		Fine			
C-131	T-96	LA Abrasion	23		
	ATM 313	Degradation	62		
	ATM 312	Nordic Abrasion			
	T-267	Organic by Ignition			
C-40	T-21	ORGANIC PPM			
C-566	T-255/T-265	Moisture Content			
D-2419		SAND EQUIVALENT			
D-4791		FLAT OR ELONGATED			
	FRACTURE	Single Face			
	AASHTO TP-61	Double Face			
		FINENESS MODULUS			
		% Deleterious			

AASHTO T-27/11			ASTM C-136/117	
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0.250	#60			
0.180	#80			
0.150	#100			
0.075	#200			
Hydro.	0.02 mm			
AASHTO	0.005 mm			
T-88	0.002 mm			
	0.001 mm			

REMARKS:

AASHTO Class: ()

DOT&PF Soil Desc:

UNIFIED Class:

Signature: *Heidi Schaefer*
 Heidi Schaefer
 Regional Lab Supervisor
 Date: *3/14/19*

SOIL AND AGGREGATE REPORT

Lab Number: 19-3510



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 AKSAS: NRMBS00333
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C-128/D-854	Fine Agg SpG	APP			
	T-84/T-100	SSD			
		BULK			
		Absorption			
C-88	Sodium Sulfate Soundness	Coarse Fine	2		
C-131	T-96	LA Abrasion	23		
	ATM 313	Degradation	69		
	ATM 312	Nordic Abrasion			
	T-267	Organic by Ignition			
C-40	T-21	ORGANIC PPM			
C-566	T-255/T-265	Moisture Content			
D-2419		SAND EQUIVALENT			
D-4791		FLAT OR ELONGATED			
	FRACTURE	Single Face			
	AASHTO TP-61	Double Face			
		FINENESS MODULUS			
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0.250	#60			
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0.075	#200			
Hydro.	0.02 mm			
AASHTO	0.005 mm			
T-88	0.002 mm			
	0.001 mm			

REMARKS:

*Amended report -
 Deg test was re-done*

AASHTO Class: ()

DOT&PF Soil Desc:

UNIFIED Class:

Signature:

Heidi Schaefer
 Heidi Schaefer
 Regional Lab Supervisor

Date: *3/19/19*