

ENX Inc. Acheson Terminal 10798 HWY 60 Acheson, AB T7X 6N5 Report Date: Project Number: Revision: March 3, 2021 19-01608-002 0

Attention: Mr. Paul Johnson

Test Report Number:	ENX GUb-20F_March2021
Year:	2021
Month of Analysis:	March
Cement Type:	ENX GUb-20F

FLY ASH SOURCE: SAMPLES RECEIVED: SAMPLED BY: Genesee Generating Station (G3) February 23, 2021 Client CEMENT SOURCE SAMPLES RECEIVED: TESTED BY: Lafarge Exshaw January 25, 2021 EXL Engineering

CHEMICAL ANALYSIS						
TEST DESCRIPTION	TEST RESULTS (1)	UNITS	SPECIFICAITON LIMITS			
	TEST RESULTS		CSA A3001-18	ASTM C150M-12		
Silicon Dioxide (SiO ₂)	27.7	%	-	-		
Aluminum Oxide (Al ₂ O ₃)	7.4	%	-	-		
Iron Oxide (Fe ₂ O ₃)	3.9	%	-	-		
Calcium Oxide (CaO)	51.6	%	-	-		
Magnesium Oxide (MgO)	3.8	%	-	-		
Sulphur Trioxide (SO ₃)	2.2	%	-	-		
Loss on Ignition (LOI)	1.80	%	-	-		
Equivalent Alkali Content (Na ₂ Oeq)	1.15	%	-	-		

(1) Rapid Method, X-Ray (A3003)

PHYSICAL ANALYSIS						
TEST DESCRIPTION	TEST RESULTS	UNITS	SPECIFICAITON LIMITS			
	TEST RESOLTS		CSA A3001-18	ASTM C150M-12		
Fineness Retained on 45µm	6.3	%	24 max	-		
Soundness, Autoclave Expansion	0.050	%	0.80 max	-		
Compressive Strength						
3-Day	21.0	MPa	14.5 min	-		
7-Day	26.0	MPa	20.0 min	-		
28-Day (previous month's result)	36.0	MPa	26.5 min	-		
Time of Setting, Vicat Initial	160	Minutes	45 - 480	-		
Density	2.86	g/cm³	-	-		

COMMENTS

We hereby certify that the cement represented by the above chemical and physical analyses meets the requirements of CSA A3001-18. Testing performed in accordance with CSA, ASTM and Concrete Reference Laboratory (CCRL) certification requirements.

Report prepared by:

EXL Engineering Inc.

Gene Lecuyer, P. Eng. Senior Materials Engineer





Results pertain only to the sample(s) provided and constitutes a testing service only. Engineering interpretation or evaluation of the test results will be provided upon written request only.