

CEMENT TEST REPORT

CSA A3001-18

ENX Inc. Acheson Terminal 10798 HWY 60 Acheson, AB T7X 6N5 Report Date: Project Number: Revision: June 4, 2021 19-01608-002

Attention: Mr. Paul Johnson

Test Report Number: Year: ENX GUb-20F_June2021 2021 June

Month of Analysis: Cement Type:

ENX GUb-20F

FLY ASH SOURCE: SAMPLES RECEIVED: SAMPLED BY: Genesee Generating Station (G3) May 17, 2021 Client CEMENT SOURCE SAMPLES RECEIVED: TESTED BY: Lafarge Exshaw April 23, 2021 EXL Engineering

CHEMICAL ANALYSIS						
TEST DESCRIPTION	TEST RESULTS (1)	UNITS	SPECIFICAITON LIMITS			
			CSA A3001-18	ASTM C150M-12		
		24				
Silicon Dioxide (SiO ₂)	27.7	%	-	-		
Aluminum Oxide (Al ₂ O ₃)	7.6	%	-	-		
Iron Oxide (Fe ₂ O ₃)	3.8	%	-	-		
Calcium Oxide (CaO)	51.6	%	-	-		
Magnesium Oxide (MgO)	3.9	%	-	-		
Sulphur Trioxide (SO ₃)	2.2	%	-	-		
Loss on Ignition (LOI)	2.04	%	-	-		
Equivalent Alkali Content (Na ₂ Oeq)	1.18	%	-	-		

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

PHYSICAL ANALYSIS						
TEST DESCRIPTION	TEST RESULTS	UNITS	SPECIFICAITON LIMITS			
			CSA A3001-18	ASTM C150M-12		
Fineness Retained on 45μm	5.9	%	24 max	-		
Soundness, Autoclave Expansion	0.090	%	0.80 max	-		
Compressive Strength						
3-Day	22.0	MPa	14.5 min	-		
7-Day	27.0	MPa	20.0 min	-		
28-Day (previous month's result)	35.0	MPa	26.5 min	-		
Time of Setting, Vicat Initial	150	Minutes	45 - 480	-		
Density	2.88	g/cm³	-	-		
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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.