

ENX Inc.  
Acheson Terminal  
10798 HWY 60  
Acheson, AB T7X 6N5

Report Date: February 3, 2021  
Project Number: 19-01608-002  
Revision: 0

Attention: Mr. Paul Johnson

<b>Test Report Number:</b>	<b>ENX Gub-20F_February2021</b>
<b>Year:</b>	<b>2021</b>
<b>Month of Analysis:</b>	<b>February</b>
<b>Cement Type:</b>	<b>ENX Gub-20F</b>

FLY ASH SOURCE:  
SAMPLES RECEIVED:  
SAMPLED BY:

Genesee Generating Station (G3)  
January 22, 2021  
Client

CEMENT SOURCE  
SAMPLES RECEIVED:  
TESTED BY:

Lafarge Exshaw  
December 18, 2020  
EXL Engineering

CHEMICAL ANALYSIS				
TEST DESCRIPTION	TEST RESULTS <sup>(1)</sup>	UNITS	SPECIFICATION LIMITS	
			CSA A3001-18	ASTM C150M-12
Silicon Dioxide (SiO <sub>2</sub> )	28.6	%	-	-
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	8.0	%	-	-
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	3.9	%	-	-
Calcium Oxide (CaO)	52.4	%	-	-
Magnesium Oxide (MgO)	3.9	%	-	-
Sulphur Trioxide (SO <sub>3</sub> )	2.3	%	-	-
Loss on Ignition (LOI)	1.90	%	-	-
Equivalent Alkali Content (Na <sub>2</sub> Oeq)	1.17	%	-	-

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

PHYSICAL ANALYSIS				
TEST DESCRIPTION	TEST RESULTS	UNITS	SPECIFICATION LIMITS	
			CSA A3001-18	ASTM C150M-12
Fineness Retained on 45µm	7.3	%	24 max	-
Soundness, Autoclave Expansion	0.060	%	0.80 max	-
Compressive Strength				
3-Day	20.0	MPa	14.5 min	-
7-Day	25.0	MPa	20.0 min	-
28-Day (previous month's result)	36.0	MPa	26.5 min	-
Time of Setting, Vicat Initial	162	Minutes	45 - 480	-
Density	2.87	g/cm <sup>3</sup>	-	-

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.