

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

Report Date: August 4, 2022  
Project Number: 22-01608-002  
Test No.: ENX-08-2022  
Revision: 0

Attention: Mr. Paul Johnson

<b>Test Report Number:</b>	<b>ENX G1 G2_08-2022_F_CSA</b>
<b>Year:</b>	<b>2022</b>
<b>Month of Analysis:</b>	<b>August</b>

FLY ASH SOURCE: Genesee Generating Station (G1 G2)      SAMPLED BY: Client  
SAMPLE DATE: July 25, 2022      SAMPLES RECEIVED: August 1, 2022

CHEMICAL ANALYSIS					
TEST DESCRIPTION	TEST RESULTS	UNITS	SPECIFICATION LIMITS		
			TYPE F	TYPE CI	TYPE CH
Silicon Dioxide (SiO <sub>2</sub> )	59.8	%	-	-	-
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	22.5	%	-	-	-
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	4.7	%	-	-	-
Total (SiO <sub>2</sub> ) + (Al <sub>2</sub> O <sub>3</sub> ) + (Fe <sub>2</sub> O <sub>3</sub> )	87.0	%	-	-	-
Sulphur Trioxide (SO <sub>3</sub> )	0.01	%	5.0% (max)	5.0% (max)	5.0% (max)
Calcium Oxide (CaO)	6.00	%	≤ 15%	> 15% - ≤ 20%	> 20%
Magnesium Oxide (MgO)	1.20	%	-	-	-
Moisture Content <sup>(1)</sup>	0.05	%	3.0% (max)	3.0% (max)	3.0% (max)
Loss on Ignition (LOI)	0.89	%	8.0% (max)	6.0% (max)	6.0% (max)
Total Equivalent Alkali Content (Na <sub>2</sub> O <sub>eq</sub> )	3.67	%	-	-	-
Total Available Equivalent Alkali Content (Na <sub>2</sub> O <sub>eq</sub> )	-	%	-	-	-

(1) Optional requirement as per CSA A3001-18 - Table A.3

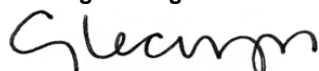
PHYSICAL ANALYSIS					
TEST DESCRIPTION	TEST RESULTS	UNITS	SPECIFICATION LIMITS		
			TYPE F	TYPE CI	TYPE CH
Fineness Retained on 45µm (No. 325 Sieve)	24.2	%	34% (max)	34% (max)	34% (max)
Quantity of Air Entrainment	1.2	%	-	-	-
Drying Shrinkage (Increase at 28-days)	0.0	%	-	-	-
Strength Activity Index with Portland Cement <sup>(2)</sup>					
% of Control at 7-Days	76	%	-	-	-
% of Control at 28-Days (previous month's result)	81	%	75% (min)	75% (min)	75% (min)
Water Requirement, Percent of Control	97	%	-	-	-
Soundness, Autoclave Expansion	-0.02	%	0.8% (max)	0.8% (max)	0.8% (max)
Density	2.10	g/cm <sup>3</sup>	-	-	-

(2) Optional requirement as per CSA A3001-18 - Table A.3

COMMENTS
We hereby certify that the fly ash represented by the above chemical and physical analyses meets the requirements of CSA A3001-18 for Type F. Testing performed by accredited laboratory in accordance with CSA A283-19 and Canadian Council of Independent Laboratories (CCIL) 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.