



FLY ASH TEST REPORT

Sample from : Sundance Harvested Fly Ash
Average Analysis: March 2026
Test Report Number Sundance_HA-4-26_F_CSA

Chemical Analysis

Silicon Dioxide (SiO ₂)	58.8 %
Aluminum Oxide (Al ₂ O ₃)	22.8 %
Iron Oxide (Fe ₂ O ₃)	3.6 %
Total (SiO ₂) + (Al ₂ O ₃) + (Fe ₂ O ₃)	85.2 %
Sulphur Trioxide (SO ₃)	0.4 %
Calcium Oxide (CaO)	8.1 %
Magnesium Oxide	0.8 %
Moisture Content	0.06 %
Loss on Ignition	2.60 %
Total Alkalies as Equivalent Na ₂ O	2.38 %

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	13.2 %
Fineness Retained on 160 um	0.0
Quality of Air Entrianment	1.1 %
Strength Activity Index with Portland Cement	
% of Control at 28 Days (<i>previous month's result</i>)	93 %
Water Requirement, Percent of Control	98 %
Density	2.33 g/cm ³
Density, Variation from Average	0.60 %
Fineness 45um Sieve, Variation from Average	2.10 %

We hereby certify that the composite fly ash sample above meets the chemical, physical and testing frequency requirements of CAN/CSA A3001 for Type F Fly Ash.

* Tested at CCIL, ASTM C1077 and AASHTO R18 Accredited Laboratory

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