

**CHEMICAL PROPERTIES OF FLY ASH
TEST REPORT**

Mr P Henderson
Fern Cement Limited
PO Box 101
Wellington



INTERNATIONAL
CONSULTANTS

Sampled by : **Client**
Date sampled : -
Sampling method : -
Sample description : **Fly ash**
Date received : **09/05/01**

Project No : 524486.00
Lab Ref No : 4-01/59
Client Ref No : SK 007

Test Results

SiO ₂	43.08%	P ₂ O ₅	0.12%
Al ₂ O ₃	23.18%	C	0.14%
Fe ₂ O ₃	11.05%	LOI	0.05%
CaO	13.48%		
MgO	2.79%		
SO ₃	1.87%		
K ₂ O	2.49%		
Na ₂ O	1.10%		
MnO	0.09%		
TiO ₂	0.43%		

Oxide analyses were performed by XRF using fused bead samples.

Total carbon was measured by analysis of combustion gases by thermal conductivity.

Date tested: 11-May-01

Sampling and testing are not covered by IANZ Accreditation

This report may only be reproduced in full

S A Freitag
Signatory

Designation : Scientist, Concrete Section
Date reported : 15/05/01

Opus International Consultants Limited
Central Laboratories
Quality Management Systems Certified to ISO 9001

138 Hutt Park Road
PO Box 30 845, Lower Hutt
New Zealand

Telephone +64 4 587 0600
Facsimile +64 4 587 0604
Website www.opus.co.nz