



CERTIFICATE OF QUALITY

EverPlus™ (Class C Flyash)



Name of Power Station **Huntly**
 Source of Sampling **Eastport & Portland Flyash Silos**

Testing Laboratory **GBC & Cement Australia**
 Grade of Sample **Grade 1**

Issued to: **National Sales Manager**

Test Report No: **20#52**

Code	Date of Sampling	Moisture %	Loss on Ignition %	Passing 45 Micron %	Sulphate SO3* %	Available Alkali* %	Total Alkali (Na2O Equiv) %	Relative Density	Relative Water %	Strength Index %	Chloride* %	Chemical Composition (SiO2 + Al2O3 + Fe2O3)
Mean		0.0	0.6	87.0	0.7	1.0	1.74	2.62	92.7	105.8	0.013	67.3
Standard Deviation		0.0	0.2	1.5	0.1	0.1	0.22	0.06	0.7	2.7	0.004	2.7
Min		0.0	0.2	83.2	0.7	0.9	1.41	2.56	91.9	103.8	0.009	62.8
Max		0.1	1.1	89.3	0.8	1.0	2.30	2.70	93.7	108.8	0.017	71.8
AS/NZS 3582.1:2016		<0.5	< 4.0	> 75	< 3.0						<0.1	> 60%
200220-048	20/02/20	0.0	0.4	88.3	#	#	2.09	#	#	#	#	69.8
200215-941	15/02/20	0.1	0.6	89.3	#	#	1.57	#	#	#	#	63.1
200208-614	08/02/20	0.0	0.6	88.6	#	#	1.48	#	#	#	#	62.8
200131-675	31/01/20	0.0	0.6	88.0	#	#	1.55	2.70	91.9	#	#	64.2
200125-267	25/01/20	0.0	0.5	88.9	#	#	1.41	#	#	#	#	63.0
200118-596	18/01/20	0.0	0.5	88.7	#	#	1.55	#	#	#	#	63.5
200111-595	11/01/20	0.0	0.6	89.0	#	#	1.60	#	#	#	#	63.9
191230-347	30/12/19	0.1	0.6	87.3	0.8	1.0	1.90	2.59	92.4	104.8	0.017	67.9
191221-523	21/12/19	0.0	0.5	88.1	#	#	1.71	#	#	#	#	65.8
191214-522	14/12/19	0.0	1.1	88.0	#	#	1.77	#	#	#	#	66.4
191212-599	12/12/19	0.0	0.3	88.3	#	#	2.12	#	#	#	#	71.8
191207-676	07/12/19	0.0	0.7	86.0	#	#	2.30	#	#	#	#	68.1
191130-890	30/11/19	0.1	0.6	85.9	#	#	1.88	#	#	#	#	68.7
191130-229	30/11/19	0.1	0.7	83.2	0.7	1.0	1.74	2.56	92.8	103.8	0.009	68.1
191123-742	23/11/19	0.1	0.6	86.9	#	#	1.81	#	#	#	#	67.8
191121-478	21/11/19	0.0	0.4	85.7	#	#	1.81	#	#	#	#	70.2
191116-071	16/11/19	0.0	0.7	85.1	#	#	1.78	#	#	#	#	68.4
191109-070	09/11/19	0.1	1.0	85.9	#	#	1.49	#	#	#	#	65.1
191102-418	02/11/19	0.1	0.8	85.8	#	#	1.63	#	#	#	#	68.7
191030-755	30/10/19	0.1	0.7	88.0	0.7	0.9	1.61	2.60	93.7	108.8	0.012	67.8
191026-417	26/10/19	0.0	0.6	86.4	#	#	1.71	#	#	#	#	68.4
191024-978	24/10/19	0.0	0.3	85.2	#	#	1.84	#	#	#	#	71.1
191019-930	19/10/19	0.0	0.2	85.8	#	#	1.45	#	#	#	#	68.5
191017-574	17/10/19	0.0	0.3	85.6	#	#	1.85	#	#	#	#	69.9
191012-512	12/10/19	0.0	0.5	87.0	#	#	1.76	#	#	#	#	69.4

* Cement Australia, Nata Accredited Laboratory Nos: 187 188

The Relative Water & Relative Strength Tests used NZS 3122 Type GP cement in the mortars
 The above samples were tested as received in accordance with methods stated in the AS 3583 series.

Total alkali & chemical composition results outside the scope of accreditation.

No result available at time of certificate issue

This Report must not be reproduced except in full

Jim White

Jim White
 Quality System Co-ordinator

Date issued: 06/03/20



Portland Works, Portland, Whangarei 0178