



CERTIFICATE OF QUALITY

EcoPlus® - Huntly Flyash



Power Station **Huntly**
Source of Sampling **Eastport Service Centre**

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

Issued to: **National Sales Manager**

Test Report No: **24#83**

Code	Date of Sampling	Moisture %	Loss on Ignition %	Passing 45 Micron %	Sulphate SO3 %	Available Alkali %	Total Alkali (Na ₂ O Equiv) %	Relative Density	Relative Water %	Strength Index %	Chloride %	Chemical Composition (SiO ₂ + Al ₂ O ₃ + Fe ₂ O ₃)
Mean		0.1	0.5	86.5	1.0	2.0	3.15	2.67	91.3	116.3	0.007	64.5
Standard Deviation		0.0	0.4	3.3	0.3	0.8	0.95	0.04	2.1	6.4	0.004	2.3
Min		0.0	0.2	80.6	0.7	0.9	1.76	2.62	88	108	0.003	60.4
Max		0.1	1.9	94.9	1.4	2.7	5.09	2.72	93	127	0.012	68.4
AS/NZS 3582.1-2016		< 0.5	< 4.0	> 75	< 3.0					> 75	< 0.1	> 60%
240605-376	05/06/24	0.0	0.3	84.9	#	#	2.87	#	#	#	#	66.9
240601-137	01/06/24	0.0	0.3	85.4	#	#	2.40	#	#	#	#	66.0
240530-480	30/05/24	0.0	0.3	83.5	0.7	#	2.31	2.72	93	114	0.003	66.3
240511-882	11/05/24	0.1	0.8	87.3	#	#	2.03	#	#	#	#	61.1
240508-674	08/05/24	0.1	0.2	88.2	#	#	1.76	#	#	#	#	66.5
240504-624	04/05/24	0.0	0.3	83.2	#	#	2.31	#	#	#	#	65.4
240430-322	30/04/24	0.0	0.4	86.7	0.8	0.9	2.91	2.70	93	114	0.003	64.3
240420-185	20/04/24	0.0	0.3	86.8	#	#	2.75	#	#	#	#	64.9
240413-652	13/04/24	0.1	0.4	86.9	#	#	2.82	#	#	#	#	65.4
240406-467	06/04/24	0.1	0.3	84.4	#	#	2.80	#	#	#	#	66.3
240330-335	30/03/24	0.1	0.2	83.4	0.7	2.0	2.55	2.62	92	117	0.004	67.7
240323-720	23/03/24	0.1	0.3	85.0	#	#	2.36	#	#	#	#	66.7
240316-311	16/03/24	0.0	0.2	83.8	#	#	1.98	#	#	#	#	68.4
240309-957	09/03/24	0.0	0.4	84.4	#	#	2.23	#	#	#	#	66.4
240229-586	29/02/24	0.0	0.6	90.2	1.2	2.5	3.61	2.69	91	112	0.010	60.4
231230-491	30/12/23	0.1	0.3	89.8	1.1	#	3.45	2.70	89	122	0.007	63.4
231216-385	16/12/23	0.0	0.2	93.0	#	#	4.97	#	#	#	#	61.5
231202-562	02/12/23	0.0	0.2	88.9	#	#	3.38	#	#	#	#	63.4
231130-370	30/11/23	0.1	1.6	84.8	1.1	#	4.25	2.63	93	108	0.012	62.2
231118-945	18/11/23	0.1	1.9	80.6	#	#	4.59	#	#	#	#	60.8
231111-772	11/11/23	0.1	0.5	84.3	#	#	3.82	#	#	#	#	64.8
231030-252	30/10/23	0.0	0.4	86.8	1.4	2.7	4.06	2.63	88	127	0.011	64.2
231028-201	28/10/23	0.1	0.4	94.9	#	#	3.66	#	#	#	#	63.6
231021-727	21/10/23	0.0	0.4	85.9	#	#	3.90	#	#	#	#	62.8
231013-419	13/10/23	0.1	0.4	90.3	#	#	5.09	#	#	#	#	62.3

Note: The above samples were tested as received in accordance with methods stated in the AS/NZS 3582.1:2016

Total alkali & chemical composition results outside the scope of accreditation.
Strength Index (%) is 7 day Accelerated

* Tested by Cement Australia, Nata Accredited Laboratory Nos: 187, 188

No result available at time of certificate issue

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Vincent Lane
Works Chemist



Date issued: 08/07/24 Portland Works, Portland, Whangarei 0178