

Week Ending	Supplier ID	SO3 (%)	Sodium Equ (NaEq)	Residue (%)	Fineness (m2/kg)	Initial Set (min)	Final Set (hour)	Soundness (%)	Water (%)	LOI (%)	3 D-MS (MPa)	7 D-MS (MPa)	28 D-MS (MPa)
8/12/2017	HRCL			7.20	315								
1/12/2017	HRCL	2.70	0.53	7.30	320					1.00			
24/11/2017	HRCL	2.75	0.53	7.70	315	90	2.75	1.00	28.3	0.90	35.3		
17/11/2017	HRCL	2.70	0.53	6.50	320	90	2.75	1.00	28.3	1.00	34.4	48.1	
10/11/2017	HRCL	2.60	0.53	5.80	325	90	2.50	1.00	28.3	0.90	35.3	49.4	
3/11/2017	HRCL	2.30	0.53	6.40	320	105	3.00	3.00	28.2	0.95	32.6	48.9	
27/10/2017	HRCL	2.20	0.52	5.90	320	90	2.75	2.00	28.0	0.85	33.0	49.5	63.3
20/10/2017	HRCL	2.30	0.53	6.90	315	90	3.00	2.00	28.0	0.85	33.1	48.9	63.0
13/10/2017	HRCL	2.40	0.53	6.60	305	90	3.00	1.00	28.0	0.90	33.0	48.4	63.1
6/10/2017	HRCL	2.45	0.53	6.00	320	90	2.75	1.00	28.0	0.90	33.6	47.8	62.4
29/09/2017	HRCL	2.65	0.54	4.20	310	90	2.50	2.00	28.0	0.95	33.9	47.0	62.4
22/09/2017	HRCL	2.70	0.52	4.10	320	90	2.75	2.00	27.9	1.15	34.7	46.3	62.3
15/09/2015	HRCL	2.40	0.54	5.00	315	90	2.75	1.00	27.9	1.20	34.0	47.7	61.7
08/09/2017	HRCL	2.45	0.54	4.50	320	90	2.75	1.00	27.8	1.10	35.1	49.2	64.1
01/09/2017	HRCL	2.90	0.54	4.30	340	90	2.75	1.00	27.8	1.25	33.3	46.8	62.9
18/08/2017	HRCL	2.50	0.53	4.30	335	105	3.50	1.00	29.3	1.15	34.2	48.7	64.1
11/08/2017	HRCL	2.50	0.52	4.20	335	90	3.50	2.00	28.7	1.20	35.4	51.0	65.0
28/07/2017	HRCL	2.40	0.53	4.70	340	105	2.75	0.00	29.3	1.05	34.5	50.1	64.0
21/07/2017	HRCL	2.40	0.51	4.80	335	120	2.75	0.00	29.3	0.85	36.2	52.1	66.4
14/07/2017	HRCL	2.35	0.51	4.20	325	105	3.00	1.00	29.5	1.00	34.6	50.4	64.7
07/07/2017	HRCL	2.40	0.51	4.40	325	90	3.25	0.00	28.8	1.00	33.8	50.0	64.4
Min		2.20	0.51	4.10	305			0.00	27.8	0.85	32.6	46.3	61.7
Max		2.90	0.54	7.70	340			3.00	29.5	1.25	36.2	52.1	66.4
Mean		2.50	0.53	5.46	323			1.21	28.4	1.01	34.2	48.9	63.5
Std Dev		0.18	0.01	1.20	9.30			0.79	0.58	0.13	0.98	1.51	1.24
NZS 3122:2009		3.50	0.64			45	6.00	5.00				35.0	45.0
Requirements		maximum	maximum			minimum	maximum	maximum				Minimum	Minimum

The above samples were tested as received in accordance with NZS3122:2009 & AS2350:2006
 Results also on www.hrcl.co.nz website
 All testing performed by IANZ / NATA approved Laboratory.
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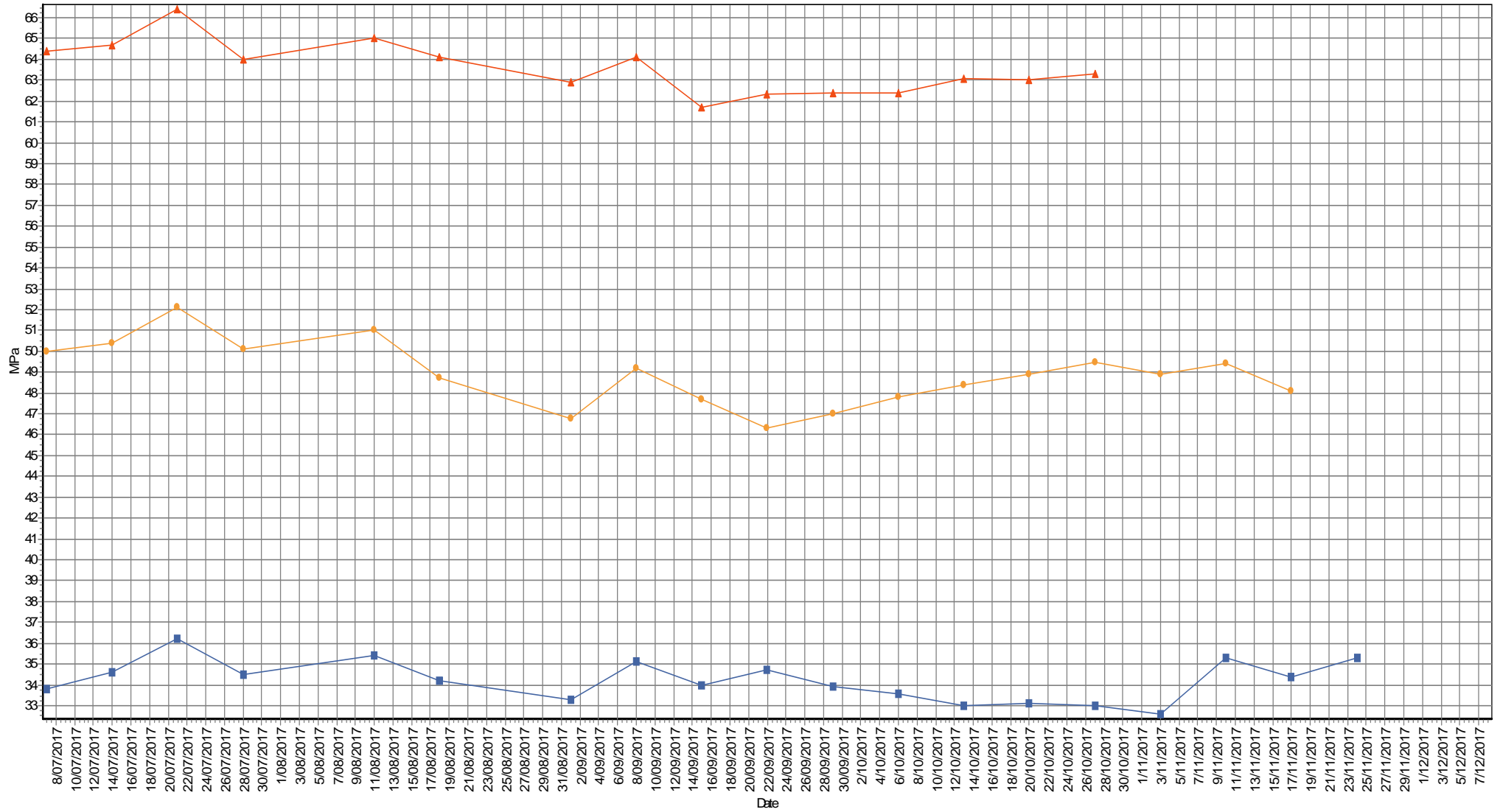
Issue Date 08/12/2017
 Report Id: HRGP17 #212



Quality
 ISO 9001

HR- Ordinary Portland Cement Type GP

Material Type: Cement
Material Code: GP-
From: 7/07/2017
To: 8/12/2017



■ 3DMS ◆ 7DMS ▲ 28DMS